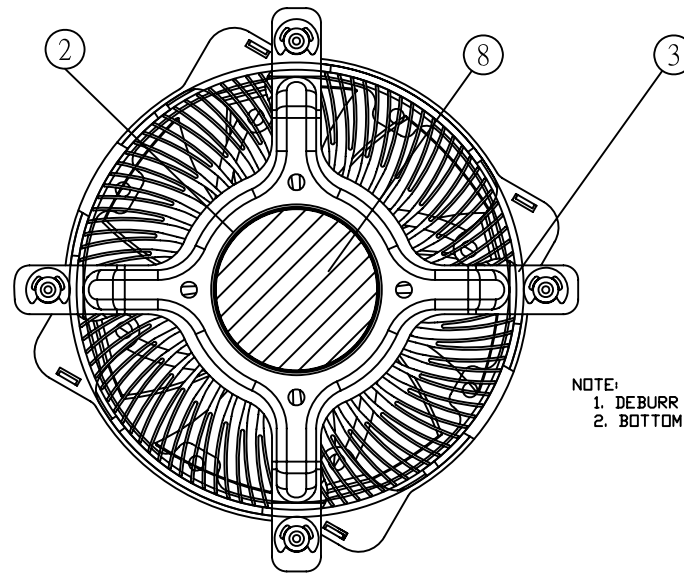
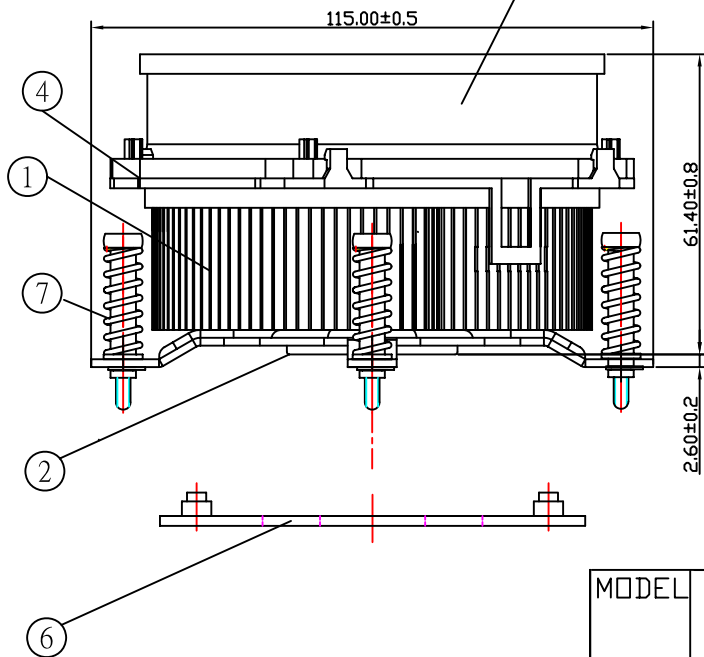
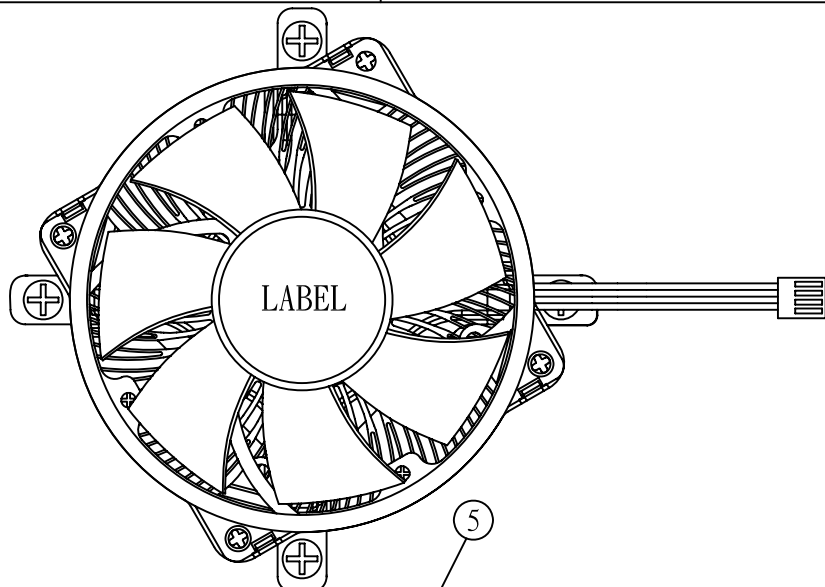


# JZC822A-A



Application	INTEL LAG 775
Specification	
Weight	0.560kg
Dimension	115L×115W×61.4H (mm)
Heat sink	
Model	JZH22A
Material	AL6063 & Cu core
Fan	
Rate Voltage	12V
Rate Current	0.55A
Rate Speed	4500 RPM±10%



NOTE:  
 1. DEBURR AND BREAK ALL SHARP EDGES.  
 2. BOTTOM DIAGONAL FLATNESS < ±0.05 mm.

BILL OF MATERIAL			
1	HEATSINK	∅90*28*104FIN	1
2	CU CORE	∅35*33L	1
3	Bracket	115*115*7.6	1
4	Fan Cover	∅95*6H	1
5	Fan	JAF909025H1:RoHS-FAN/4500RPM	1
6	BACK PLATE	JAT094; FOR LGA775	1
7	SPRING&SCREW	SAE1018-SWC(NIKEL)	4
8	GREASE	DOWCORNING SC102 (∅33*0.25)	1

MODEL	JZC822A		NAME	COOLER					
DRN	John	12/11 2006	MATERIAL			REV.	DESCRIPTION	SIGN	DATE
DSN	Kathy	12/11 2006	FINISH				DIM IN	mm	DO NOT SCALE
CKD	Richard	12/11 2006					SHEET	1	OF
APPD	Auric	12/11 2006	 CHIA CHERNE INDUSTRY CO.,LTD			DRAWING NO.	JZC822A		

# SPECIFICATIONS

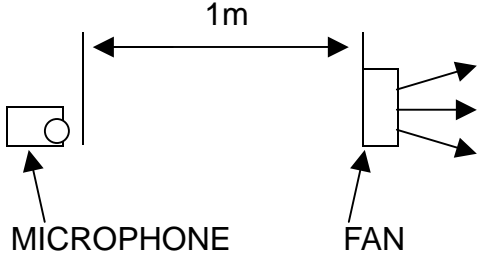
<b>TYPE</b> DC BRUSHLESS FAN	<b>MODEL NO.</b> F129025BU AF	<b>PAGE:</b> 1 OF 5
---------------------------------	----------------------------------	------------------------

THESE SPECIFICATIONS DEFINE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BRUSHLESS FAN.

**1. MECHANICAL SPECIFICATIONS**

- |                         |                                    |
|-------------------------|------------------------------------|
| 1-1 EXTERNAL DIMENSIONS | : REFER TO DWG. NO. HT-001         |
| 1-2 HOUSING MATERIAL    | : LEAD-FREE PBT PLASTIC {UL 94V-0} |
| IMPELLER MATERIAL       | : LEAD-FREE PBT PLASTIC {UL 94V-0} |
| 1-3 BEARING             | : TWO BALL BEARING                 |
| 1-4 NET WEIGHT          | : 84g                              |

**2. ELECTRICAL SPECIFICATIONS**

NO	ITEMS	STANDARD	REMARKS
2-1	RATED VOLTAGE	12 V DC	
2-2	OPERATING RANGE	11.4 V~12.6 V DC	
2-3	CONSUMING CURRENT	DUTY CYCLE =100% 0.38 Amp (MAX. 0.55 Amp) DUTY CYCLE = 0%~20% (MAX. 0.08Amp)	IN FREE AIR AT RATED VOLTAGE
2-4	CONSUMING POWER	DUTY CYCLE =100% 4.56W (MAX.6.60 W) DUTY CYCLE = 0%~20% (MAX.0.96 W)	IN FREE AIR AT RATED VOLTAGE
2-5	RATED SPEED	DUTY CYCLE =100% 4500±10%rpm DUTY CYCLE= 0%~20%1000rpm±400rpm	IN FREE AIR AT RATED VOLTAGE
2-6	AIRFLOW	DUTY CYCLE =100% 76.92CFM 2.18m <sup>3</sup> /min DUTY CYCLE = 0%~20% 16.57CFM 0.47m <sup>3</sup> /min	AT RATED VOLTAGE AT ZERO STATIC PRESSURE
2-7	STATIC PRESSURE	DUTY CYCLE =100% 8.30 mmH <sub>2</sub> O DUTY CYCLE =0%~20% 0.40 mmH <sub>2</sub> O	AT RATED VOLTAGE AT ZERO AIRFLOW
2-8	SOUND LEVEL	DUTY CYCLE =100% 45dB(A) ( MAX. 49dB(A) ) DUTY CYCLE = 0%~20% 19 dB(A) ( MAX.21 dB(A) )	IN FREE AIR AT RATED VOLTAGE  

<b>EVERFLOW</b> <b>PRECISION ELECTRON CO., LTD</b>	<b>APPROVAL</b>	<b>CHECK</b>	<b>DESIGN</b>
	<b>LIU CHUN XIANG</b> 2006/07/11	<b>LIANG HAI HU</b> 2006/07/11	<b>HAI YING YANG</b> 2006/07/11

# SPECIFICATIONS

<b>TYPE</b>	<b>MODEL NO.</b>	<b>PAGE:</b>	
<b>DC BRUSHLESS FAN</b>	<b>F129025BU AF</b>	<b>2 OF 5</b>	
2-10	OPERATING TEMPERATURE	-10 ~70 (NORMAL HUMIDITY)	
2-11	STORAGE TEMPERATURE	-20 ~75 (NORMAL HUMIDITY)	
2-12	DIRECTION OF ROTATION	CLOCKWISE FROM LABEL SIDE	
2-13	DIRECTION OF AIRFLOW	LABEL SIDE DISCHARGE	
2-14	INSULATION STRENGTH	10 MEG OHM MIN.	AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL)
2-15	DIELECTRIC STRENGTH	MUST WITHSTAND 500 VAC 1min	MAX 1mA BETWEEN FRAME AND LEADS
2-16	PROTECTION	CURRENT LIMIT	
2-17	DROP TEST	IN MINIMUM PACKAGING CONDITION, FAN WITHSTANDS EACH ONE DROP OF THREE FACES FROM 30cm DISTANCE HEIGHT ON TO 10mm THICKNESS OF WOODEN BOARD.	
2-18	MECHANICAL SHOCK	TEMPERATURE : +25°c. ORIENTATION : X , Y , Z . POWER : NON-OPERATING. ACCELERATION : 20G MIN. PULSE : 11 MS HALF-SINE WAVE. NUMBER OF SHOCKS : 5 SHOCKS FOR EACH DIRECTION.	
NOTE 1. THE ABOVE STANDARD SHOULD BE THE SPECIFIED VALUE AT NORMAL TEMPERATURE (25 ) AND NORMAL HUMIDITY (60~65%) UNLESS OTHERWISE NOTICED.			
<b>EVERFLOW PRECISION ELECTRON CO., LTD</b>		<b>APPROVAL</b>  <b>LIU CHUN XIANG</b> <b>2006/07/11</b>	<b>CHECK</b>  <b>LIANG HAI HU</b> <b>2006/07/11</b>
		<b>DESIGN</b>  <b>HAI YING YANG</b> <b>2006/07/11</b>	



# SPECIFICATIONS

<b>TYPE</b> DC BRUSHLESS FAN	<b>MODEL NO.</b> F129025BU AF	<b>PAGE:</b> 3 OF 5
---------------------------------	----------------------------------	------------------------

**3.LIFE EXPECTANCE (MTBF)**

MORE THAN 90% SHALL KEEP RUNNING AFTER CONTINUOUS OPERATION OF 50,000 HOURS AT RATED VOLTAGE IN 25 AMBIENT TEMPERATURE AND 65% RELATIVE HUMIDITY CONDITION.

FAN LIFE SHOULD BE REDEFINED WHEN ABOVE CONDITIONS ARE CHANGED.

**4.LOCKED ROTOR**

NO DAMAGE SHALL BE FOUND FOR CONTINUOUS ONE HOUR AT LOCKED ROTOR.

**5.SPECIAL ITEMS**

**5-1 SPECIFICATION CHANGE**

ANY CHANGES TO THE PARAMETERS SPECIFIED IN THIS DOCUMENT WILL BE DETERMINED BY MUTUAL AGREEMENT ON BOTH PARTIES.

**5-2 UNCERTAINTY**

IN THE EVENT THAT ANY QUESTIONS MAY ARISE ABOUT THIS DOCUMENT OR ANY STATEMENTS NOT SPECIFIED IN THIS DOCUMENT BOTH PARTIES WILL DISCUSS AND DETERMINE A SOLUTION FAITHFULLY.

**5-3 NOTE**

1.PLEASE CONSIDER HAVING AN INDEPENDENT PROTECTION SYSTEM IN THE EVENT THAT THE FAN SHOULD STOP OPERATING.

2.PLEASE MAKE REFERENCE TO ATTACHED IMPORTANT NOTES & GENERAL INSTRUCTIONS AND DWG.No.:HT-001 TOGETHER WITH THIS SPECIFICATION.

**6. FAN SPEED RESPONSE TO PWM CONTROL INPUT SIGNAL.**

IF NO CONTROL SIGNAL IS PRESENT THE FAN SHALL OPERATE AT MAXIMUM RPM.

<b>EVERFLOW PRECISION ELECTRON CO., LTD</b>	<b>APPROVAL</b>	<b>CHECK</b>	<b>DESIGN</b>
	<b>LIU CHUN XIANG 2006/07/11</b>	<b>LIANG HAI HU 2006/07/11</b>	<b>HAI YING YANG 2006/07/11</b>

# SPECIFICATIONS

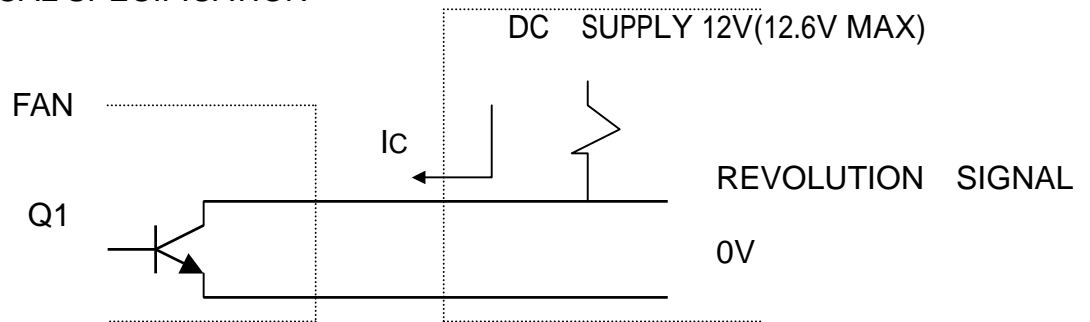
<b>TYPE</b> DC BRUSHLESS FAN	<b>MODEL NO.</b> F129025BU AF	<b>PAGE:</b> 4 OF 5
---------------------------------	----------------------------------	------------------------

## 7. PROVISION OF REVOLUTION SIGNAL

### 7-1 OUTPUT OF REVOLUTION SIGNAL

OUTPUT TYPE  
ELECTRICAL SPECIFICATION

OPEN COLLECTOR TYPE



TRANSISTOR Q1 AT "ON" POSITION  
COLLECTOR CURRENT SATURATION VOLTAGE BETWEEN COLLECTOR AND EMITTER AT  $I_c = 10\text{mA MAX.}$   
TRANSISTOR Q1 AT "OFF" POSITION  
RELEASE VOLTAGE

$I_c = 10\text{ mA MAX.}$   
 $V_{oL} = 0.5\text{V MAX.}$

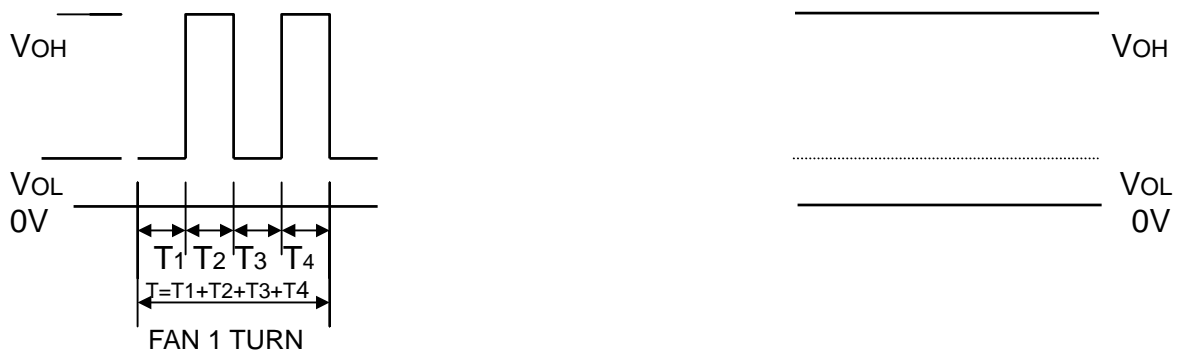
$V_{oH} = 12\text{V}(12.6\text{V MAX})$

### 7-2 OUTPUT WAVEFORM

(ACCORDING TO INPUT VOT.)

(AT REVOLUTION)

(AT LOCKED POSITION)



REMARK: AT LOCKED POSITION, OUTPUT BECOMES  $V_{oH}$  OR  $V_{oL}$

$T = T_1 + T_2 + T_3 + T_4 = 60/N$  (SEC)     $N$  : FAN SPEED (r.p.m)

$$\text{DUTY} = \frac{T_1}{T_1 + T_2} = 50 \pm 10\%$$

<b>EVERFLOW PRECISION ELECTRON CO., LTD</b>	<b>APPROVAL</b>	<b>CHECK</b>	<b>DESIGN</b>
	<b>LIU CHUN XIANG 2006/07/11</b>	<b>LIANG HAI HU 2006/07/11</b>	<b>HAI YING YANG  2006/07/11</b>

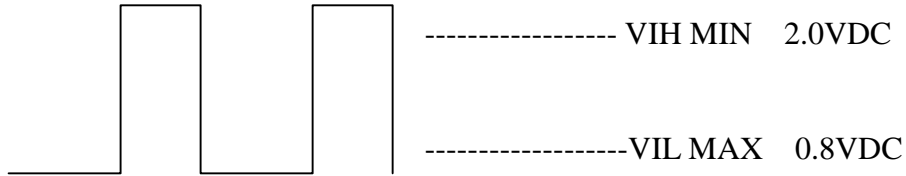
# SPECIFICATIONS

<b>TYPE</b> DC BRUSHLESS FAN	<b>MODEL NO.</b> F129025BU AF	<b>PAGE:</b> 5 OF 5
---------------------------------	----------------------------------	------------------------

7-3 PWM CONTROL INPUT SIGNAL:

MAXIMUM VOLTAGE FOR LOGIC LOW:MAX VIL 0.8VDC

MINIMUM VOLTAGE FOR LOGIC HIGH:MIN VIH 2.0VDC



<b>EVERFLOW PRECISION ELECTRON CO., LTD</b>	<b>APPROVAL</b>	<b>CHECK</b>	<b>DESIGN</b>
	<b>LIU CHUN XIANG 2006/07/11</b>	<b>LIANG HAI HU 2006/07/11</b>	<b>HAI YING YANG 2006/07/11</b>

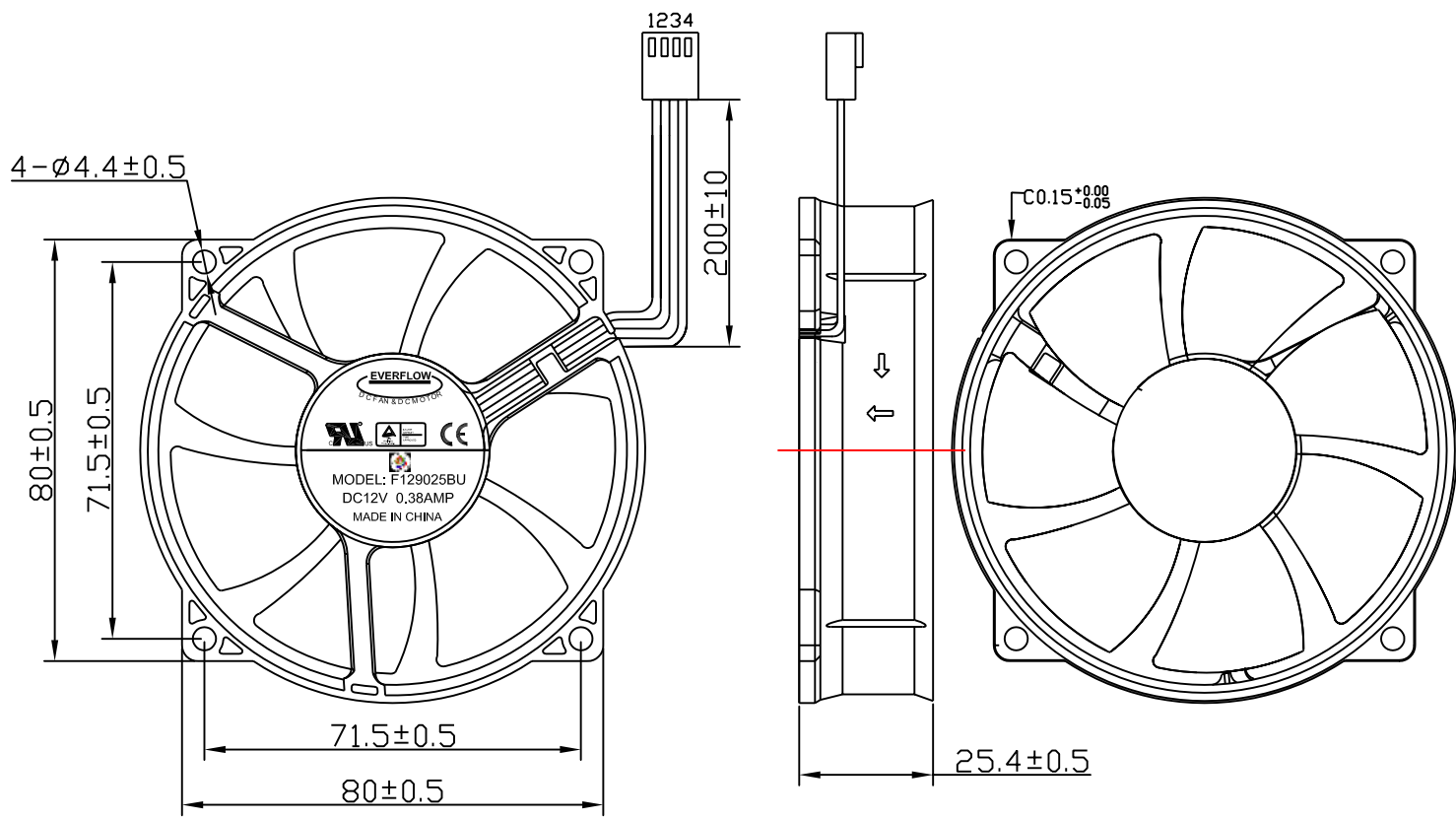
# SPECIFICATIONS

## **IMPORTANT NOTES & GENERAL INSTRUCTIONS**

1. Customer shall confirm the matching and reliability of fan on actual set or unit application.  
This include confirmation on set or unit life, electrical noise, mechanical noise, vibration, static electricity, electric power noise, drift, electric resonance between motor and control circuit, mechanical resonance between motor and chassis, irregular movement of set due to motor noise, irregular movement of set in strong electromagnetic field, damaged by lightning surge earthing method etc.
2. Any revisions on the specification shall be done based on mutual discussion and agreement.
3. In order to improve the performance within the scope of specification, parts or material changes are subject to prior notice to customer.
4. Any item which is needed to add into specification shall be determined on customer's prior written request. If no information given, fan will be delivered based on our standard judgment.
5. When any trouble occurs, both parties shall discuss on this specification to solve the matters. In this case, our guarantee is only limited to fans.

	<b>APPROVAL</b>	<b>CHECK</b>	<b>DESIGN</b>
<b>EVERFLOW PRECISION ELECTRON CO., LTD</b>	<b>LIU CHUN XIANG 2006/07/11</b>	<b>LIANG HAI HU 2006/07/11</b>	<b>HAI YING YANG 2006/07/11</b>

REVISES  
A



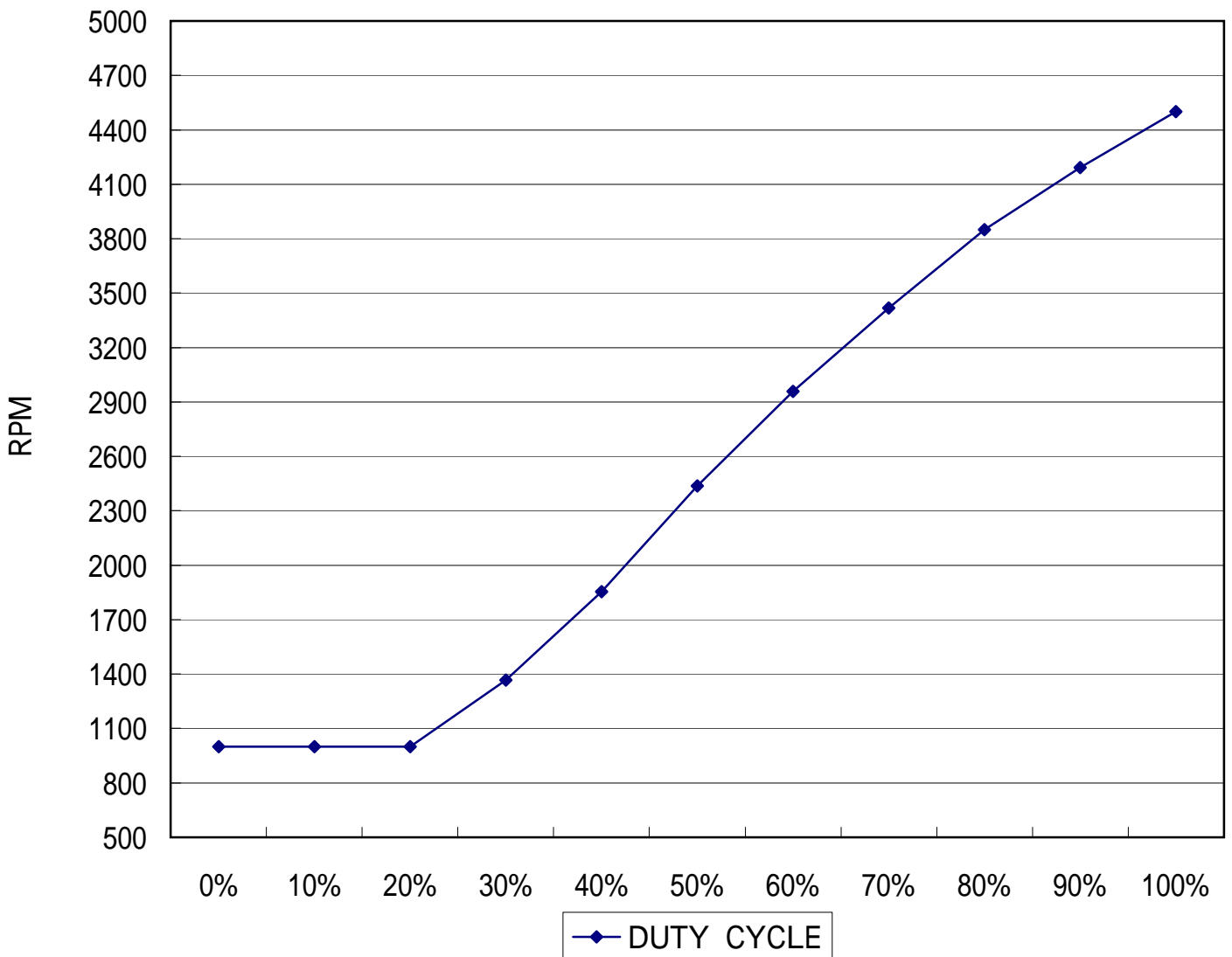
- NOTES:
1. LEAD WIRE UL 1430 #26AWG OR EQUIVALENT  
 PIN 1: BLACK WIRE---(-)  
 PIN 2: YELLOW WIRE---(+)  
 PIN 3: GREEN WIRE---(SIGNAL)  
 PIN 4: BLUE WIRE---(PWM INPUT)
  2. HOUSING: A2543-4P OR EQUIVALENT

TRCANGLE METHOD		UNIT: mm		MODEL NO.	F129025BUAF6A5bR
APPROVE	LIU CHUN XIANG	2006/07/11	✕	PART NAME	DC FAN
CHECK	LIANG HAI HU	2006/07/11		DRAWING NAME	OUTLINE
DRAWING	HAI YING YANG	2006/07/11			
EVERFLOW PRECISION ELECTRON CO.,LTD.			CODE	HT - 001	PAGE: 1

# F129025BUAF6A5bR

DUTY CYCLE	SPEED (RPM)	RANGE	CURRENT (REF)
0%	1000	±400	0.08A
10%	1000	±400	0.08A
20%	1000	±400	0.08A
30%	1366	±400 (REF)	0.08A
40%	1854	±400 (REF)	0.08A
50%	2436	±400 (REF)	0.12A
60%	2958	±400 (REF)	0.17A
70%	3419	±10%(REF)	0.24A
80%	3849	±10%(REF)	0.33A
90%	4191	±10%(REF)	0.43A
100%	4500	±10%	<0.55A

DUTY CYCLE CURVE CHART  
(F=25KHZ V=5V(5.25max) Duty cycle: 0~100%)



# Test Report

WHOLE WELL CO., LTD.  
 NO. 48, LANE 203 SEC 2, HSING-LONG ROAD, TAIPEI,  
 TAIWAN.

Report No. : CE/2006/61679  
 Date : 2006/06/19  
 Page : 1 of 2

**The following merchandise was (were) submitted and identified by the client as :**

Type of Product : ON SEMICONDUCTOR SOT-23 PACKAGE  
Style/Item No : SOT-23  
Sample Received : 2006/6/6  
Testing Date : 2006/6/6 TO 2006/06/19

## Test Result

PART NAME NO.1 : MIXED ALL PARTS

Test Item (s):	Unit	Method	MDL	Result
				No.1
Chromium VI (Cr+6)	ppm	UV-VIS(US EPA 7196A) after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.

NOTE: (1) N.D. = Not detected (<MDL)  
 (2) ppm = mg/kg  
 (3) MDL = Method Detection Limit

  
 Daniel Yeh, M.R. / Operation Manager  
 Signed for and on behalf of  
 SGS TAIWAN LTD.

## Test Report

WHOLE WELL CO., LTD.  
NO. 48, LANE 203 SEC 2, HSING-LONG ROAD, TAIPEI,  
TAIWAN.

Report No. : CE/2006/61679  
Date : 2006/06/19  
Page : 2 of 2





# Test Report

SANYO SEMICONDUCTOR TAIPEI CO., LTD.  
116 6F., NO. 101, SONGREN RD., SINYI DISTRICT, TAIPEI  
CITY 110, TAIWAN

Report No. : CE/2006/80268  
Date : 2006/08/08  
Page : 1 of 4



**The following sample(s) was/were submitted and identified by/on behalf of the client as :**

Sample Description : HSSOP PACKAGE SERIES  
Sample Received : 2006/08/01  
Testing Period : 2006/08/01 TO 2006/08/08

=====  
**Test Result(s)** : - Please see the next page(s) -

  
Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

# Test Report

SANYO SEMICONDUCTOR TAIPEI CO., LTD.  
 116 6F., NO. 101, SONGREN RD., SINYI DISTRICT, TAIPEI  
 CITY 110, TAIWAN

Report No. : CE/2006/80268  
 Date : 2006/08/08  
 Page : 2 of 4



## Test Result(s)

PART NAME NO.1 : MIXED ALL PARTS OF BODY  
 PART NAME NO.2 : SILVER COLORED METAL PIN

Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
<b>PBBs (Polybrominated biphenyls)</b>	---	---	---	---	---
Monobromobiphenyl	mg/Kg (ppm)	With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	N.D.	N.D.
Dibromobiphenyl			5	N.D.	N.D.
Tribromobiphenyl			5	N.D.	N.D.
Tetrabromobiphenyl			5	N.D.	N.D.
Pentabromobiphenyl			5	N.D.	N.D.
Hexabromobiphenyl			5	N.D.	N.D.
Heptabromobiphenyl			5	N.D.	N.D.
Octabromobiphenyl			5	N.D.	N.D.
Nonabromobiphenyl			5	N.D.	N.D.
Decabromobiphenyl			5	N.D.	N.D.
<b>Total PBBs (Polybrominated biphenyls)/Sum of above</b>			-	N.D.	N.D.
<b>PBBEs(PBDEs) (Polybrominated biphenyl ethers)</b>	---	---	---	---	
Monobromobiphenyl ether	mg/Kg (ppm)	With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	N.D.	N.D.
Dibromobiphenyl ether			5	N.D.	N.D.
Tribromobiphenyl ether			5	N.D.	N.D.
Tetrabromobiphenyl ether			5	N.D.	N.D.
Pentabromobiphenyl ether			5	N.D.	N.D.
Hexabromobiphenyl ether			5	N.D.	N.D.
Heptabromobiphenyl ether			5	N.D.	N.D.
Octabromobiphenyl ether			5	N.D.	N.D.
Nonabromobiphenyl ether			5	N.D.	N.D.
Decabromobiphenyl ether			5	N.D.	N.D.
<b>Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above</b>			-	N.D.	N.D.
<b>Total of Mono to Nonabrominated biphenyl ether. (Note 4)</b>	-	N.D.	N.D.		

# Test Report

SANYO SEMICONDUCTOR TAIPEI CO., LTD.  
116 6F., NO. 101, SONGREN RD., SINYI DISTRICT, TAIPEI  
CITY 110, TAIWAN

Report No. : CE/2006/80268

Date : 2006/08/08

Page : 3 of 4



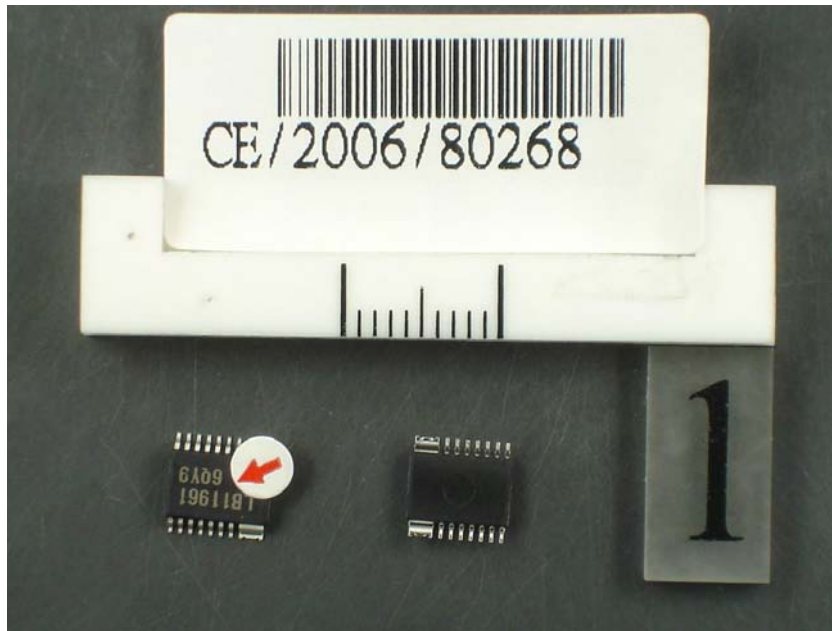
Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
Chromium VI (Cr+6)	mg/Kg (ppm)	With referece to US EPA 3060A. Analysis was performed by UV-VIS (US EPA 7196A)	2	N.D.	N.D.
Cadmium (Cd)	mg/Kg (ppm)	With reference to EN 1122 method B:2001. Analysis was performed by ICP-AES.	2	N.D.	N.D.
Mercury (Hg)	mg/Kg (ppm)	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	N.D.	N.D.
Lead (Pb)	mg/Kg (ppm)	With reference to US EPA 3050B. Analysis was performed by ICP-AES.	2	N.D.	9.9

- NOTE: (1) N.D. = Not Detected (<MDL)  
 (2) mg/Kg = ppm, 0.1% = 1000 ppm(mg/Kg), 0.0005% = 5 ppm(mg/Kg)  
 (3) MDL = Method Detection Limit  
 (4) Decabromobiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.  
 (5) PBBEs=PBDEs=Polybrominated Diphenyl Ethers=PBDOs=PBBOs.  
 (6) " - " = Not Regulated  
 (7) " --- " = Not Applicable  
 (8) Sample was totally digested for Pb, Cd, Hg and totally extracted for Cr<sup>+6</sup> and PBBs/PBDEs.

## Test Report

SANYO SEMICONDUCTOR TAIPEI CO., LTD.  
116 6F., NO. 101, SONGREN RD., SINYI DISTRICT, TAIPEI  
CITY 110, TAIWAN

Report No. : CE/2006/80268  
Date : 2006/08/08  
Page : 4 of 4



\*\* End of Report \*\*



# Test Report

TSUEN JYI ENTERPRISE CO., LTD.  
2F., NO. 501-17, JHONGJHENG RD., SINDIAN CITY,  
TAIPEI COUNTY 231, TAIWAN

Report No. : CE, 2006/30186  
Date : 2006/03/08  
Page : 1 of 2

The following merchandise was (were) submitted and identified by the client as :

Type of Product : METAL RING (RTW/STW/IRTW/ISTW/MT/NT/GTW)  
Style/Item No : ØSK5, SK7  
Buyer/Order No : TSUEN JYI ENTERPRISE CO.,LTD.  
Sample Received : 2006/03/01  
Testing Date : 2006/03/01 TO 2006/03/08

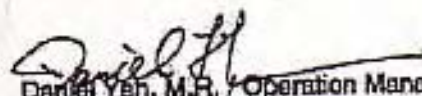
Conclusion : The test results of Pb, Cd, Hg and Cr+6 for the submitted sample comply with the requirements of RoHS (2002/95/EC).

PART NAME NO.1 : BLACK METAL

PASS

Test Item (s):	Unit	Method	MDL	Result	Limit of ROHS
				No.1	
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.	1000
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001, or other acid digestion.	2	N.D.	100
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	1000
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	1000

NOTE: (1) N.D. = Not detected (<MDL)  
(2) ppm = mg/kg  
(3) MDL = Method Detection Limit

  
Daniel Yen, M.R., Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

The content of this PDF file is in accordance with the original issued reports for reference only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.





# Test Report

TSUEN JYI ENTERPRISE CO., LTD.  
2F., NO. 501-17, JHONGJHENG RD., SINDIAN CITY,  
TAIPEI COUNTY 231, TAIWAN

Report No. : CE/2006/30186  
Date : 2006/03/08  
Page : 2 of 2



The content of this PDF file is in accordance with the original issued reports for reference only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company

SGS TAIWAN LIMITED | NO. 106-1, WuKung Road, WuKung Industrial Zone, Taipei county, Taiwan.  
TEL: (886-2) 22983929 FAX: (886-2) 2299-3237 www.sgs.com.tw

NO. 0011 0007 10

SGS

SELL

CCI

Test Report

No.: GZ0603023198/CHEM

Date: MAR 08, 2006

Page 1 of 2

HUNG YICK METAL COMPANY LIMITED
UNITS 101-108, 1/F, EAST OCEAN CENTRE, 98 GRANVILLE ROAD, TSIMSHATSUI, KOWLOON, HONG KONG

Report on the submitted sample said to be ELECTROLYTIC GALVANIZED STEEL SHEET IN COIL, EGC: S D QF X

SGS Ref No. : GZ060304617EC-30.2
Supplier : HUNG YICK METAL COMPANY LIMITED
Manufacturer : NIPPON STEEL CORPORATION
Sample Receiving Date : MAR 02, 2006
Testing Period : MAR 02, 2006 TO MAR 08, 2006

Test Requested : (1) As specified by client, to determine the Lead, Cadmium & Mercury content in the submitted sample.
(2) Determination of the presence of Hexavalent Chromium Cr(VI) in the submitted metallic samples.
(3) Determination of PBBs (Polybrominated Biphenyls), PBDEs (Polybrominated Diphenylethers) of the submitted sample.

Test Method : (1) Lead content - With reference to EPA method 3050B: 1996 / other acid digestion.
Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion.
Mercury content - With reference to EPA 3052: 1996 / 7473: 1998 / other acid digestion.
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).
(2) With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 9.7.2 - Boiling-water-extraction method)
(3) With reference to EPA 3540C / 3550C, Analysis was performed by GC/MS.

Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.

Zhang Li, Amy
Sr. Engineer



This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.





**Test Report**

No.: GZ0603023198/CHEM

Date: MAR 08, 2008

Page 2 of 2

Results :

(1)

Li-gray metal sheet

Lead Content (Pb)(ppm)  
Cadmium Content (Cd)  
Mercury Content (Hg)

4  
N.D.  
N.D.

Note : - N.D. = Not Detected (< 2 ppm)  
- ppm = mg/kg

(2)

Li-gray metal sheet

Hexavalent Chromium Content [Cr(VI)]

Negative

Note : - Negative means the concentration of Hexavalent Chromium extracted from 50cm<sup>2</sup> sample is less than the detection limit.  
- Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50cm<sup>2</sup> sample surface area by boiling-water-extraction method

(3)

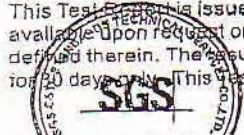
<u>Li gray metal sheet</u>	
<b>Flame Retardants</b>	
<b>Polybrominated Biphenyls (PBBs)</b>	
Monobromobiphenyl	ND
Dibromobiphenyl	ND
Tribromobiphenyl	ND
Tetrabromobiphenyl	ND
Pentabromobiphenyl	ND
Hexabromobiphenyl	ND
Heptabromobiphenyl	ND
Octabromobiphenyl	ND
Nonabromodiphenyl	ND
Decabromodiphenyl	ND
<b>Polybrominated Diphenylethers (PBDEs)</b>	
Monobromodiphenyl ether	ND
Dibromodiphenyl ether	ND
Tribromodiphenyl ether	ND
Tetrabromodiphenyl ether	ND
Pentabromodiphenyl ether	ND
Hexabromodiphenyl ether	ND
Heptabromodiphenyl ether	ND
Octabromodiphenyl ether	ND
Nonabromodiphenyl ether	ND
Decabromodiphenyl ether	ND

Note : - N.D. = Not Detected (< 5 ppm)  
- ppm = mg/kg

\*\*\* End of Report \*\*\*



This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days only. This Test Report shall not be reproduced in full, without written approval of the Company.





# SGS

## Test Report

No. GZ0602014292/CHEM

Date: FEB 21, 2006

Page 1 of 2

PROSPERITY WIRE AND CABLE CO., LTD  
YIN HU INDUSTRY AREAS, SHI SHUI KOU, QIAO TOW TOWN,  
DONG GUAN CITY, GUANG DONG, CHINA

Report on the submitted sample said to be: MAGNET WIRE

SGS Ref No. : SZ060204589RS  
Main Substance : 铜, 铝线漆  
Sample Receiving Date : FEB 15, 2006  
Testing Period : FEB 15, 2006 TO FEB 21, 2006

Test Requested : (1) As specified by client, to determine the Lead, Cadmium & Mercury content in the submitted sample.  
(2) Determination of the presence of Hexavalent Chromium Cr(VI) in the submitted metallic samples.  
(3) Determination of PBBs (Polybrominated Biphenyls), PBDEs (Polybrominated Diphenylethers) of the submitted sample.

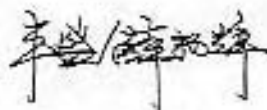
Test Method : (1) Lead content - With reference to EPA method 3050B: 1996 / other acid digestion.  
Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion.  
Mercury content - With reference to EPA 3052: 1996 / other acid digestion.  
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).  
(2) With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 9.7.2 - Boiling-water-extraction method)  
(3) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS.

Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd



Huang Fang Sunny  
Sr. Engineer



This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies stated therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.



GZCM 465801

MEMBER OF SGS GROUP (Société Générale de Surveillance)  
中国·广州·经济技术开发区科学城科城路198号 邮编: 510663 1-86-20-6215555 1-86-20-6215513 1-86-20-6215511 www.cn.sgs.com  
a.sgs.china@sgs.com

Member of SGS Group (Société Générale de Surveillance)



**Test Report**

No. GZ0502014292/CHEM

Date, FEB 21, 2006

Page 2 of 2

**Results**

(1)	<u>Coppery metal wire</u>
Lead Content (Pb)	3
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.

Note - N.D. = Not Detected (< 2 ppm)  
ppm = mg/kg

(2)	<u>Coppery metal wire</u>
Hexavalent Chromium [Cr(VI)]	Negative

Note - Negative means the concentration of Hexavalent Chromium extracted from 50cm<sup>2</sup> sample is less than the detection limit.  
- Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50cm<sup>2</sup> sample surface area by boiling-water-extraction method

(3)	<u>Coppery metal wire</u>
<b>Flame Retardants</b>	
<b>Polybrominated Biphenyls (PBBs)</b>	
Monobromobiphenyl	ND
Dibromobiphenyl	ND
Tribromobiphenyl	ND
Tetrabromobiphenyl	ND
Pentabromobiphenyl	ND
Hexabromobiphenyl	ND
Heptabromobiphenyl	ND
Octabromobiphenyl	ND
Nonabromobiphenyl	ND
Decabromobiphenyl	ND
<b>Polybrominated Diphenylethers (PBDEs)</b>	
Monobromodiphenyl ether	ND
Dibromodiphenyl ether	ND
Tribromodiphenyl ether	ND
Tetrabromodiphenyl ether	ND
Pentabromodiphenyl ether	ND
Hexabromodiphenyl ether	ND
Heptabromodiphenyl ether	ND
Octabromodiphenyl ether	ND
Nonabromodiphenyl ether	ND
Decabromodiphenyl ether	ND

Note - N.D. = Not Detected (< 5 ppm)  
ppm = mg/kg

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days. This Test Report shall not be reproduced except in full, without written approval of the Company.



GZCM 485606

(HK) 00852 2610 1111 / (CN) 020 8215 5555 / (FR) 03 20 07 51 13 [www.cn.sgs.com](http://www.cn.sgs.com)  
 (CN) 020 8215 5555 / (CN) 020 8215 5555 / (CN) 03 20 07 51 13 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)  
 (CN) 020 8215 5555 / (CN) 020 8215 5555 / (CN) 03 20 07 51 13

Member of SGS Group (Société Générale de Surveillance)



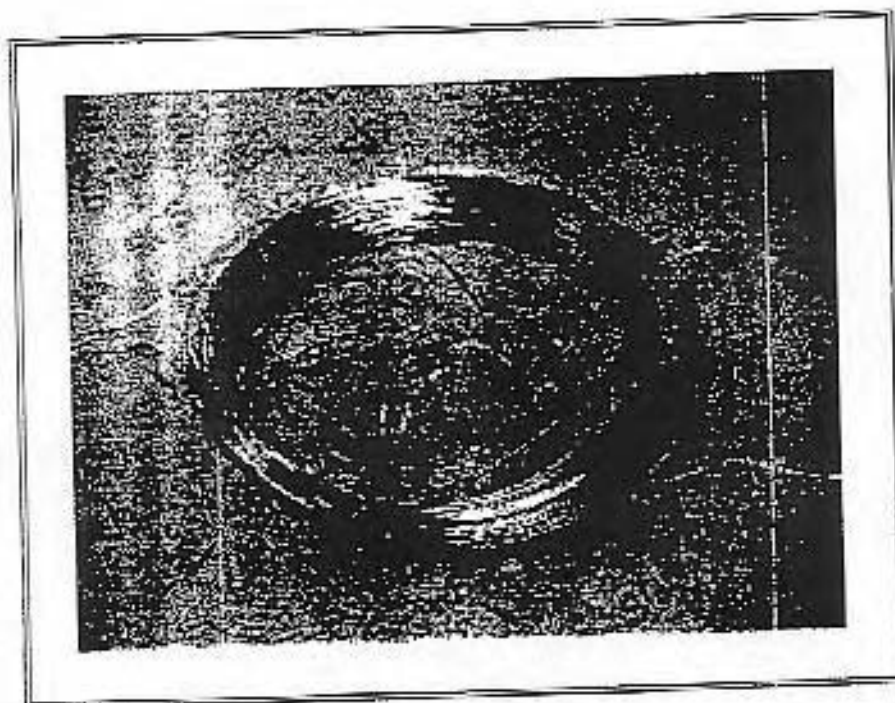
Test Report

No: GZ0502014292/CHEM

Date: FEB 21, 2006

Page 1 of 1

PHOTO APPENDIX



SGS authenticates the photo on original report only

Signed for and on behalf of  
SGS-CSTC Ltd.

Huang Fang, Sunny  
Sr. Engineer

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.



GZCM 465250

1895201 Place de l'Étoile | 92085 Nanterre Cedex | France | T +33 (0)1 41 17 43 00 | F +33 (0)1 41 17 43 01 | [www.cn.sgs.com](http://www.cn.sgs.com)  
中国·广州·经济技术开发区科学城珠岛路100号 电话: 810003 | F +86-20-62155350 | T +86-20-02075113 | e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of SGS Group (Société Générale de Surveillance)

## Survey Report

KOAN HAO ENTERPRISE CO., LTD.  
29, GUNG YE RD, NANKANG IND. PARK, NANTOU,  
TAIWAN R. O. C.

Report No. : CS/2006/30208  
Date : 2006/04/06  
Page : 1 of 4

The following merchandise was (were) submitted and identified by the client as :

Type of Product : 25u B TYPE POLYESTER FILM SILVER MATT (I)  
STICKER FOR UL  
Style/Item No : BTKSMI25UL

### Test Result

: - Please see the next page -

\* This report is combined with reports of CV/2006/30125 & CE/2006/24996 \*

  
Der-Hsin Yen, M.P., Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.



## Survey Report

KOAN HAO ENTERPRISE CO., LTD.  
29, GUNG YE RD, NANKANG IND. PARK, NANTOU,  
TAIWAN R. O. C.

Report No. : CS/2006/30208  
Date : 2006/04/06  
Page : 2 of 4

### Test Result

PART NAME NO.1 : SILVER/BRIGHT SILVER COLORED PLASTIC  
FILM(CV/2006/30125)  
PART NAME NO.2 : TRANSPARENT GLUE(CE/2006/24996)

Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	N.D.
Dibromobiphenyl	%		0.0005	N.D.	N.D.
Tribromobiphenyl	%		0.0005	N.D.	N.D.
Tetrabromobiphenyl	%		0.0005	N.D.	N.D.
Pentabromobiphenyl	%		0.0005	N.D.	N.D.
Hexabromobiphenyl	%		0.0005	N.D.	N.D.
Heptabromobiphenyl	%		0.0005	N.D.	N.D.
Octabromobiphenyl	%		0.0005	N.D.	N.D.
Nonabromobiphenyl	%		0.0005	N.D.	N.D.
Decabromobiphenyl	%		0.0005	N.D.	N.D.
Total PBBs (Polybrominated biphenyls)/Sum of above	%	-	N.D.	N.D.	
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	N.D.
Dibromobiphenyl ether	%		0.0005	N.D.	N.D.
Tribromobiphenyl ether	%		0.0005	N.D.	N.D.
Tetrabromobiphenyl ether	%		0.0005	N.D.	N.D.
Pentabromobiphenyl ether	%		0.0005	N.D.	N.D.
Hexabromobiphenyl ether	%		0.0005	N.D.	N.D.
Heptabromobiphenyl ether	%		0.0005	N.D.	N.D.
Octabromobiphenyl ether	%		0.0005	N.D.	N.D.
Nonabromobiphenyl ether	%		0.0005	N.D.	N.D.
Decabromobiphenyl ether	%		0.0005	N.D.	N.D.
Total PBDEs (PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%	-	N.D.	N.D.	
Total of Mono to Nonabrominated biphenyl ether. (Note 5)	%	-	N.D.	N.D.	



## Survey Report

KOAN HAO ENTERPRISE CO., LTD.  
29, GUNG YE RD, NANKANG IND. PARK, NANTOU,  
TAIWAN R. O. C.

Report No. : CS/2006/30208  
Date : 2006/04/06  
Page : 3 of 4

Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	N.D.

- NOTE: (1) N.D. = Not detected (<MDL)  
 (2) ppm = mg/kg  
 (3) MDL = Method Detection Limit  
 (4) " - " = Not Regulation  
 (5) " --- " = Not Applicable  
 (6) Decabromodiphenyl ether (DecaBDE) in polymeric applications is exempted under Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC.  
 (7) PBBEs=PBDEs=Polybrominated Diphenyl Ethers=PBDOs=PBBOs.



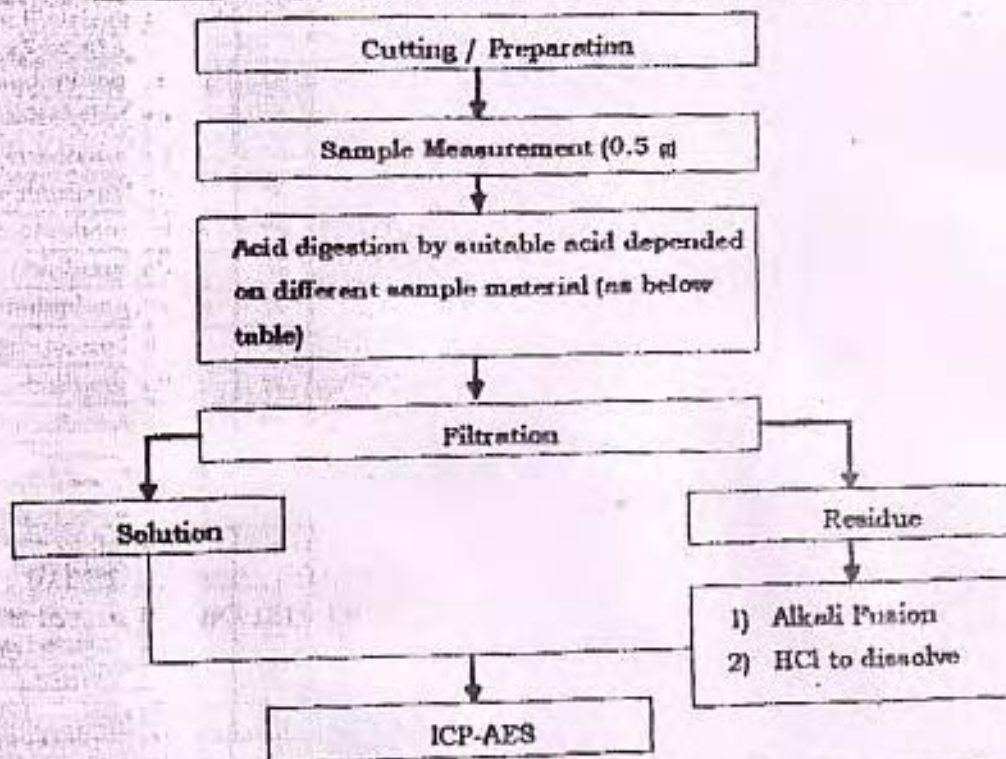
## Survey Report

KOAN HAO ENTERPRISE CO., LTD.  
 29, GUNG YE RD, NANKANG IND. PARK, NANTOU,  
 TAIWAN R. O. C.

Report No. : CS/2006/30208  
 Date : 2006/04/06  
 Page : 4 of 4

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Andrea Lee
- 3) Name of the person in charge of measurement: Daniel Yeh

### Method 1: Flow Chart of Digestion for heavy metal analysis



Steel, copper, aluminum, solder	Agua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Any acid to total digestion



镀锡铜线



Test Report

No.: GZ0605070392/CHEM Date: MAY 23, 2006 Page 1 of 2

JIUFENG GROUP DONGGUAN HUACHANG CONDUCTOR CO., LTD.  
BAISHA SANCHUN, HUMEN TOWN, DONGGUAN, GUANGDONG, CHINA

Report on the submitted sample said to be BARE COPPER WIRE (裸铜线)

SGS Ref No. : SZ060523401RS-5.1  
Sample Receiving Date : MAY 17, 2006  
Testing Period : MAY 17, 2006 TO MAY 23, 2006

Test Requested : (1) As specified by client, to determine the Lead, Cadmium & Mercury content in the submitted sample.  
(2) Determination of the presence of Hexavalent Chromium Cr(VI) in the submitted metallic samples.

Test Method : (1) Lead content - With reference to EPA method 3050B: 1996 / other acid digestion.  
Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion.  
Mercury content - With reference to EPA 3052: 1996 / other acid digestion.  
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).  
(2) With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 9.7.2 - Boiling-water-extraction method)

Results : Please refer to next page

Signed for and on behalf of  
SGS-CSTC Ltd.

Zhang Li, Amy  
Sr. Engineer

Handwritten notes and a circular stamp. A table with handwritten entries is visible:

Pb Max%	ND
Cd Max%	ND
Hg Max%	dc
Cr(VI)	0.8 / 1
Cr(VI)	0.8 / 1

This test report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies stated therein. The results shown in this Test Report refer only to the sample(s) tested (unless otherwise stated and such sample(s) are retained for 90 days). This Test Report shall not be reproduced except in full, without written approval of the Company.



GZCM 589636

TEL: 86213371 2222 FAX: 86213371 2222 (Main Office) TEL: 86213371 2222 FAX: 86213371 2222 (Shanghai) TEL: 86213371 2222 FAX: 86213371 2222 (Shanghai) www.cn.sgs.com





Test Report

No: GZ0605070392/CHEM

Date: MAY 23, 2006

Page 2 of 2

Results:

(1)	<u>Coppery metal wire</u>
Lead Content (Pb)	N.D.
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.

Note: - N.D. = Not Detected (< 2 ppm)  
- ppm = mg/kg

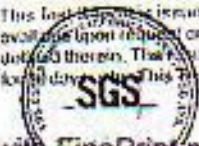
(2)	<u>Coppery metal wire</u>
Hexavalent Chromium Content [Cr(VI)]	Negative

Note: - Negative means the concentration of Hexavalent Chromium extracted from 50cm<sup>2</sup> sample is less than the detection limit.  
- Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50cm<sup>2</sup> sample surface area by boiling-water-extraction method

\*\*\* End of Report \*\*\*



This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies outlined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.



GZCM 689535





端子芯电

TEST REPORT

REPORT NO. KA200651881  
DATE: 2006/6/28  
PAGE: 1 OF 1



THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED ON BEHALF OF THE CLIENT AND IDENTIFIED AS:

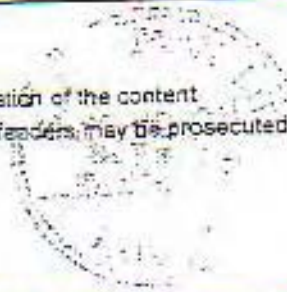
CLIENT	: EVER CONNECTOR INDUSTRIAL CO.,LTD.
PRODUCT DESCRIPTION	: TERMINAL (PHOSPHOR BRONZE).
SAMPLE	: AS ATTACHED PHOTO.
TESTING DATE	: 2006/6/21 TO 2006/6/28
SAMPLE RECEIVED	: 2006/06/21.

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED:

TEST ITEM(S)	UNIT	METHOD	MDL	RESULT
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122:2001 or other acid digestion.	2	n.d.
Chromium VI (Cr+6)	ppm	UV-VIS (US EPA 7136A) after reference to US EPA 306CA.	2	n.d.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3062 or other acid digestion.	2	n.d.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	22.8
PBBs (Polybrominated biphenyls)	---	---	---	---
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 78/769/EEC)	0.0005	n.d.
Dibromobiphenyl	%		0.0005	n.d.
Trisbromobiphenyl	%		0.0005	n.d.
Tetrabromobiphenyl	%		0.0005	n.d.
Pentabromobiphenyl	%		0.0005	n.d.
Hexabromobiphenyl	%		0.0005	n.d.
Heptabromobiphenyl	%		0.0005	n.d.
Octabromobiphenyl	%		0.0005	n.d.
Nonabromobiphenyl	%		0.0005	n.d.
Decabromobiphenyl	%		0.0005	n.d.
PBDEs (Polybrominated biphenyl ethers)	---	---	---	---
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 78/769/EEC)	0.0005	n.d.
Dibromobiphenyl ether	%		0.0005	n.d.
Trisbromobiphenyl ether	%		0.0005	n.d.
Tetrabromobiphenyl ether	%		0.0005	n.d.
Pentabromobiphenyl ether	%		0.0005	n.d.
Hexabromobiphenyl ether	%		0.0005	n.d.
Heptabromobiphenyl ether	%		0.0005	n.d.
Octabromobiphenyl ether	%		0.0005	n.d.
Nonabromobiphenyl ether	%		0.0005	n.d.
Decabromobiphenyl ether	%		0.0005	n.d.

NOTE: (1) n.d. = not detected  
 (2) ppm = mg/kg  
 (3) MDL = Method Detection Limit  
 (4) Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.

*Kueilan Chen*  
 Kueilan Chen / Asst. Supervisor  
 Sign for and on behalf of  
 SGS Taiwan Limited





## Integration Report

Report No.: SZR06040511555

Date: Apr. 20, 2006

Page 1 of 4

Client : DONGGUANGUNEEETALWIRE & CABLECO.,LTD.

Address : XIN LIAN INDUSTRIAL AREA, HUMEN TOWN DONGGUAN CHINA

Report on the submitted sample said to be:

Sample Name : 电线

Sample Description : BLUE/WIRE&CABLE:1007,1032,1095,1185,1354,1618,1619,1792,2464, 2468,2725,2547,2552,2562,2791,2844,2851,2854,2877,2919,2990,2960,20276, 2651,20080,1061,1533,1571,1010,1015,1028,1430,1431,1569,1617,1672,2733, SPT-1(W),20251,SPT-2(W),SPT-3,RG,1394,1107,1365, 1492,1429,2835,1478, UTP,STP,USB,SVT,SJT,CXT,FXT, XT,PXT,XTW,CM,CMX,CMP,MP,MPR, CL2X,CL2,CL2R,CL3,CL3X,CL3R

Sample Received Date : Apr. 19, 2006

Completed Date : Apr. 20, 2006

Client Requested : As specified by client, to integrate the test reports submitted by client.

### 电线



Conclusion: According to the results of the test reports submitted by client, the sample BLUE/WIRE&CABLE complies with the requirements of EU RoHS Directive.

千星(星)国际检测物化检测报告管理制度	
客户名称: 金泰	Pb Max值: MD
地址: 宝安区西乡	Cd Max值: MD
检测项目: 金泰	结果判定: OK
检测日期: 2006年8月1日	日期: 2006年8月1日
工程名称: 金泰	日期: 2006年8月1日



5F., Huaqiang logistics, Longzhu Road, Nanshan, Shenzhen, China

Tel:86-755-33307999 Fax:86-755-33307988

1F., Building C, Hongwei Industrial zone, Baoan 70 district, Shenzhen, China

Tel:86-755-29799666 Fax:86-755-29799699

E-mail:info@cti-cert.com http://www.cti-cert.com

## Integration Report

Report No.:SZR06040511555

Date:Apr. 20, 2006

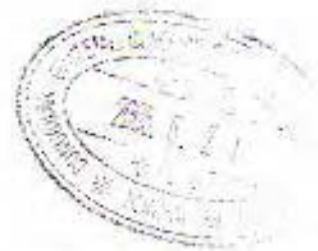
Page 2 of 4

电线

No.	Component	Description	Report No.	Laboratory	Date
1	Isulation	Blue plastic pellet	2033048/EC	SGS	2005.08.17
2	Conductor	Silvery metal	2031035/EC	SGS	2005.08.01
3	白色印字	White paint	2032025/EC	SGS	2005.08.09

**Test Results:****Heavy Metal**

Elements	Contents		
	1	2	3
Lead	N.D.	N.D.	3ppm
Mercury	N.D.	N.D.	N.D.
Cadmium	N.D.	N.D.	N.D.
Hexavalent Chromium	N.D.	N.D.	N.D.
Chromium	/	N.D.	/





## Integration Report

Report No.:SZR06040511555

Date:Apr. 20, 2006

Page 3 of 4

**Test Results:**
**Organic Compounds**
**Polybrominated Biphenyls(PBBs)**

Compounds	Contents	
	1	3
Monobromobiphenyl	N.D.	N.D.
Dibromobiphenyl	N.D.	N.D.
Tribromobiphenyl	N.D.	N.D.
Tetrabromobiphenyl	N.D.	N.D.
Pentabromobiphenyl	N.D.	N.D.
Hexabromobiphenyl	N.D.	N.D.
Heptabromobiphenyl	N.D.	N.D.
Octabromobiphenyl	N.D.	N.D.
Nonabromobiphenyl	N.D.	N.D.
Decabromobiphenyl	N.D.	N.D.

**Polybrominated Diphenyl Ethers(PBDEs)**

Compounds	Contents	
	1	3
Monobromodiphenyl ether	N.D.	N.D.
Dibromodiphenyl ether	N.D.	N.D.
Tribromodiphenyl ether	N.D.	N.D.
Tetrabromodiphenyl ether	N.D.	N.D.
Pentabromodiphenyl ether	N.D.	N.D.
Hexabromodiphenyl ether	N.D.	N.D.
Heptabromodiphenyl ether	N.D.	N.D.
Octabromodiphenyl ether	N.D.	N.D.
Nonabromodiphenyl ether	N.D.	N.D.
Decabromodiphenyl ether	N.D.	N.D.



## Integration Report

Report No.:SZR06040511555

Date:Apr. 20, 2006

Page 4 of 4

Note: -N.D. = Not Detected (&lt;report limit).

-ppm = mg/kg=parts per million.

### Disclaimer:

- ★ The integration report is not equivalent to the test report.
- ★ CTI does not shoulder responsibility for the authenticity of all the test data listed in integration report, which are submitted by the applicants.
- ★ The applicants are responsible for all the legal obligation caused by the inaccuracy and invalidity of the original report.
- ★ If this disclaimer contradicts any other terms and conditions of CTI, this disclaimer will prevail.

\*\*\* End of report \*\*\*

Written by SandyApproved by Jaihy CernInspected by DamingPosition ManagerDate Apr. 20, 2006

This report shall not be added, deleted, or amended. The results shown in this report are only available to the reports submitted by the client. Without written approval of CTI, this test report shall not be copied in part or published as advertisement.

CTI Physical &amp; Chemical Lab.





## Test Report

No. 2049989/EC

Date: Jan 17 2006

Page 1 of 2

HUI SHENG PLASTICS (SHENZHEN) CO., LTD.  
NO. 2 NINETY-NINE INDUSTRIAL AREA  
MINZHU VILLAGE, SHAJING TOWN  
BAOAN DISTRICT OF SHENZHEN

Report on the submitted sample said to be GREEN PVC.

SGS Job No. : 1960392  
SGS Ref. No. : SZECC060100910RS-3.2  
Sample Receiving Date : JAN 10 2006  
Testing Period : JAN 10 - 16 2006

Test Requested : With reference to RoHS Directive 2002/95/EC  
1) To determine the Cadmium Content in the submitted sample.  
2) To determine the Lead Content in the submitted sample.  
3) To determine the Mercury Content in the submitted sample.  
4) To determine the Hexavalent Chromium Content on the submitted sample.  
5) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : 1) With reference to BS EN 1122:2001, Method B, analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).  
2) With reference to EPA Method 3050B/ 3051/ 3052. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).  
3) With reference to EPA Method 3051/ 3052. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).  
4) With reference to EPA Method 3060A & 7196A. The sample was alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A (by UV-Vis Spectrophotometer).  
5) With reference to EPA Method 3540C/ 3550C. Analysis was performed by GC/MS or LC/MS.

Test Results : 1-5) Please refer to next page.

Conclusion : When tested as specified, the submitted sample complies with the requirements of Commission Decision of 18 Aug 2005 amending Directive 2002/95/EC notified under document 2005/618/EC.

Signed for and on behalf of  
SGS Hong Kong Ltd

Wan Chi Wai, Leo  
Technical Manager

检测项目	检测结果	检测标准
Pb Max	N.P	RoHS
Cd Max	N.D	RoHS
Hexavalent Chromium	DL	RoHS
PBBs	未检出	RoHS
PBDEs	未检出	RoHS

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.

SZE 131771



**Test Results**

1-4)

**Test Item**

Cadmium (Cd)

Lead (Pb)

Mercury (Hg)

 Hexavalent Chromium (Cr<sup>6+</sup>)

**Green Plastic**

ND

ND

ND

ND

**Detection Limit**

2 ppm

2 ppm

2 ppm

2 ppm

**Limit**

100 ppm

1000 ppm

1000 ppm

1000 ppm

(Results shown are of the total weight of samples)

Note : ppm = mg/kg

ND = Not Detected

Not detected is reported when the reading is less than detection limit value

5)

Flame Retardants	Green Plastic	Detection Limit	Limit
<b>Polybrominated Biphenyls (Mono - Deca)</b>			
Monobromobiphenyl	ND	50 ppm	1000 ppm
Dibromobiphenyl	ND	5 ppm	--
Tribromobiphenyl	ND	5 ppm	--
Tetrabromobiphenyl	ND	5 ppm	--
Pentabromobiphenyl	ND	5 ppm	--
Hexabromobiphenyl	ND	5 ppm	--
Heptabromobiphenyl	ND	5 ppm	--
Octabromobiphenyl	ND	5 ppm	--
Nonabromobiphenyl	ND	5 ppm	--
Decabromobiphenyl	ND	5 ppm	--
<b>Polybrominated Diphenylethers (Mono - Nona)</b>			
Monobromodiphenyl ether	ND	45 ppm	1000 ppm
Dibromodiphenyl ether	ND	5 ppm	--
Tribromodiphenyl ether	ND	5 ppm	--
Tetrabromodiphenyl ether	ND	5 ppm	--
Pentabromodiphenyl ether	ND	5 ppm	--
Hexabromodiphenyl ether	ND	5 ppm	--
Heptabromodiphenyl ether	ND	5 ppm	--
Octabromodiphenyl ether	ND	5 ppm	--
Nonabromodiphenyl ether	ND	5 ppm	--
Decabromodiphenyl ether*	ND	5 ppm	See remark

Note : ppm = mg/kg

ND = Not Detected

Not detected is reported when the reading is less than detection limit value.

Remark : \* Decabromodiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.

Remark : Test was conducted in SGS Hong Kong Limited

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.





2006 Rec

# Test Report

No. 2069812/EC

Date : May 19 2006

Page 1 of 4

HUI SHENG PLASTIC (SHENZHEN) CO., LTD.  
NO. 2 NINETY-NINE INDUSTRIAL AREA  
MINZHU VILLAGE, SHAJING TOWN  
BAOAN DISTRICT OF SHENZHEN

Report on the submitted sample said to be BLACK PVC

SGS Job No. : 1014733  
SGS Ref No. : SZECO060420715RS-3.1  
Supplier/Manufacturer : HUI SHENG  
Sample Receiving Date : MAY 12 2006  
Testing Period : MAY 12 - 19 2006

### Test Requested

- With reference to SONY SS-00259
- 1) To determine the Cadmium Content in the submitted sample.
- 2) To determine the Lead Content in the submitted sample.
- 3) To determine the Mercury Content in the submitted sample.
- 4) To determine the Hexavalent Chromium Content on the submitted sample.
- 5) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

### Pre conditioning and Measurement Method

- 1-3) With reference to EPA Method 3051/ 3052  
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
- 4) With reference to EPA Method 3060A & 7196A  
The sample was alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A (by UV-Vis Spectrophotometry).
- 5) With reference to EPA Method 3540C/ 3560C. Analysis was performed by GC/MS or LC/MS.

### Test Results

1-5) Please refer to the next page

Signed for and on behalf of  
SGS Hong Kong Ltd

Wan Chi Wai, Leo  
Technical Manager

PH	16.0
CO	ND
ME	ND
CR	ND
DATE	06年8月1日
TIME	16年8月1日



This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days. This Test Report shall not be reproduced except in full, without written approval of the Company.



SZE 159946





# Test Report

No. 2059812/EC

Date: May 19 2006

Page 2 of 4

## Test Results

### Test Item

1) Cadmium (Cd)

2) Lead (Pb)

3) Mercury (Hg)

4) Hexavalent Chromium (Cr<sup>6+</sup>)

### Black Plastic

ND

ND

ND

ND

### Detection Limit

2 ppm

2 ppm

2 ppm

2 ppm

(Results shown are of the total weight of samples)

Note: ppm = mg/kg

ND = Not Detected

Not detected is reported when the reading is less than detection limit value

Flame Retardants	Black Plastic	Detection Limit
<b>Polybrominated Biphenyls (PBBs)</b>		
Monobromobiphenyl	ND	5 ppm
Dibromobiphenyl	ND	5 ppm
Tribromobiphenyl	ND	5 ppm
Tetrabromobiphenyl	ND	5 ppm
Pentabromobiphenyl	ND	5 ppm
Hexabromobiphenyl	ND	5 ppm
Heptabromobiphenyl	ND	5 ppm
Octabromobiphenyl	ND	5 ppm
Nonabromobiphenyl	ND	5 ppm
Decabromobiphenyl	ND	5 ppm
<b>Polybrominated Diphenylethers (PBDEs)</b>		
Monobromodiphenyl ether	ND	5 ppm
Dibromodiphenyl ether	ND	5 ppm
Tribromodiphenyl ether	ND	5 ppm
Tetrabromodiphenyl ether	ND	5 ppm
Pentabromodiphenyl ether	ND	5 ppm
Hexabromodiphenyl ether	ND	5 ppm
Heptabromodiphenyl ether	ND	5 ppm
Octabromodiphenyl ether	ND	5 ppm
Nonabromodiphenyl ether	ND	5 ppm
Decabromodiphenyl ether	ND	5 ppm

Note: ppm = mg/kg

ND = Not Detected

Not detected is reported when the reading is less than detection limit value

Remark: Test was conducted in SGS Hong Kong Limited

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request on our website at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, identification and jurisdictional policies set out therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days. This Test Report shall not be reproduced except in full, without written approval of the Company.



SZB-159945



### Flow chart of digestion

(EPA 3051/3052 for Cd, Pb)



### DATA

The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator

Chow Fuk Fung

Section Chief

Wan Chi Wai, Leo



This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request and are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days. This Test Report shall not be reproduced, except in full, without written approval of the Company.



SZB 159944



PHOTO APPENDIX



SGS authenticates the photo on original report only

\*\*\* End of Report \*\*\*



This Test Report is issued by the Company subject to its General Conditions of Service printed over leaf of attached. Said Conditions are also available upon request. They are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies included therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are representative of the lot. This Test Report shall not be reproduced, stored, or used, without written approval of the Company.



SGS 159943



## Test Report

No.: GZSCR051193565/LP

Date: DEC 05, 2005

Page 1 of 4

DONGGUAN WONDERFUL WIRE & CABLE FACTORY.  
LONG-YAN INDUSTRIAL AREA, HUMEN, DONGGUAN, GUANGDONG, CHINA

Report on the submitted sample said to be PVC 胶粒 (黄色)

1007 系列、1015 系列、10272 系列、1032/1028 系列、1061 系列、1617 系列、  
1095 系列、1571 系列、1316/1452 系列、1430 系列、1569 系列、1365 系列、  
2547 系列、2854 系列、1431 系列、2835 系列、2877 系列、1010 系列、2552 系列、  
1533 系列、1185 系列、1618 系列、2919 系列、1354 系列、1691 系列、1792 系列、  
2468 系列、2725 系列、2651 系列、1500 系列、2844 系列、2877 系列、2960 系列、  
2990 系列、2562 系列、1672 系列、2791 系列、2517 系列、2851 系列、1230 系列、  
2464 系列、2733 系列、20246 系列、20276 系列、20288 系列、SJTO 系列、  
SJTOW 系列、SJTOOW 系列、STO 系列、STOO 系列、STOW 系列、SJTOO 系列、  
STOOW 系列、SPT-1.2.3 系列、SJT 系列、SVT 系列、ST 系列、NISPT-1.2 系列、  
STP 系列、UTP 系列、USB 系列、H03 系列、H05 系列、VFF 系列、VCTFK 系列、  
VCTF 系列、VSF 系列、VCT 系列、LTSA 系列、HVCTF 系列、GTSA 系列、  
HVFF 系列、HVSF 系列、CMP 系列、XTW 系列、CXTW 系列、CL3P 系列、  
日规同轴系列、国标 3C 认证线材系列、汽车用线系列及非标准系列等。

SGS Ref No. : GZ051117040EC-25.18  
Buyer : SONY  
Sample Receiving Date : NOV 29, 2005  
Testing Period : NOV 29, 2005 TO DEC 05, 2005

Test Requested : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.  
(2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test method : (1) Cadmium content : With reference to BS EN 1122:2001 Method B see flowchart (1).  
Lead content : Ashing after wet decomposition see flowchart (2).  
Mercury content - With reference to EPA 3052: 1996 / 7473: 1998.  
Hexavalent Chromium content - With reference to EPA 3060A: 1996 & EPA 7196A: 1992.  
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / Direct Mercury analyzer / UV-VIS Spectrophotometer.  
(2) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS.

Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.

Huang Fang, Sunny  
Sr. Engineer

T 型 塑料颗粒物质测试报告管制章			
检测物: 万泰	Pb Max值: MD	检测日期: 05	检测地点: 02
Lot#: 72000504	Cd Max值: N.D	检测日期: 05年12月30日	检测地点: 02
检测物: 万泰		检测日期: 05年12月30日	检测地点: 02
检测物: 刘福华		检测日期: 05年12月30日	检测地点: 02
检测物: 罗平		检测日期: 05年12月30日	检测地点: 02

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

GZCM 384063



## Test Report

No.: GZSCR051193565/LP

Date: DEC 05, 2005

Page 2 of 4

Results :

(1)

	Yellow plastic grains
Lead Content (Pb)	N.D.
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.

Note : - N.D. = Not Detected (< 2 ppm)  
- ppm = mg/kg

(2)

	Yellow plastic grains
<b>Flame Retardants</b>	
<b>Polybrominated Biphenyls (PBBs)</b>	
Monobromobiphenyl	ND
Dibromobiphenyl	ND
Tribromobiphenyl	ND
Tetrabromobiphenyl	ND
Pentabromobiphenyl	ND
Hexabromobiphenyl	ND
Heptabromobiphenyl	ND
Octabromobiphenyl	ND
Nonabromodiphenyl	ND
Decabromodiphenyl	ND
<b>Polybrominated Diphenylethers (PBDEs)</b>	
Monobromodiphenyl ether	ND
Dibromodiphenyl ether	ND
Tribromodiphenyl ether	ND
Tetrabromodiphenyl ether	ND
Pentabromodiphenyl ether	ND
Hexabromodiphenyl ether	ND
Heptabromodiphenyl ether	ND
Octabromodiphenyl ether	ND
Nonabromodiphenyl ether	ND
Decabromodiphenyl ether	ND

Note : - N.D. = Not Detected (< 5 ppm)  
- ppm = mg/kg

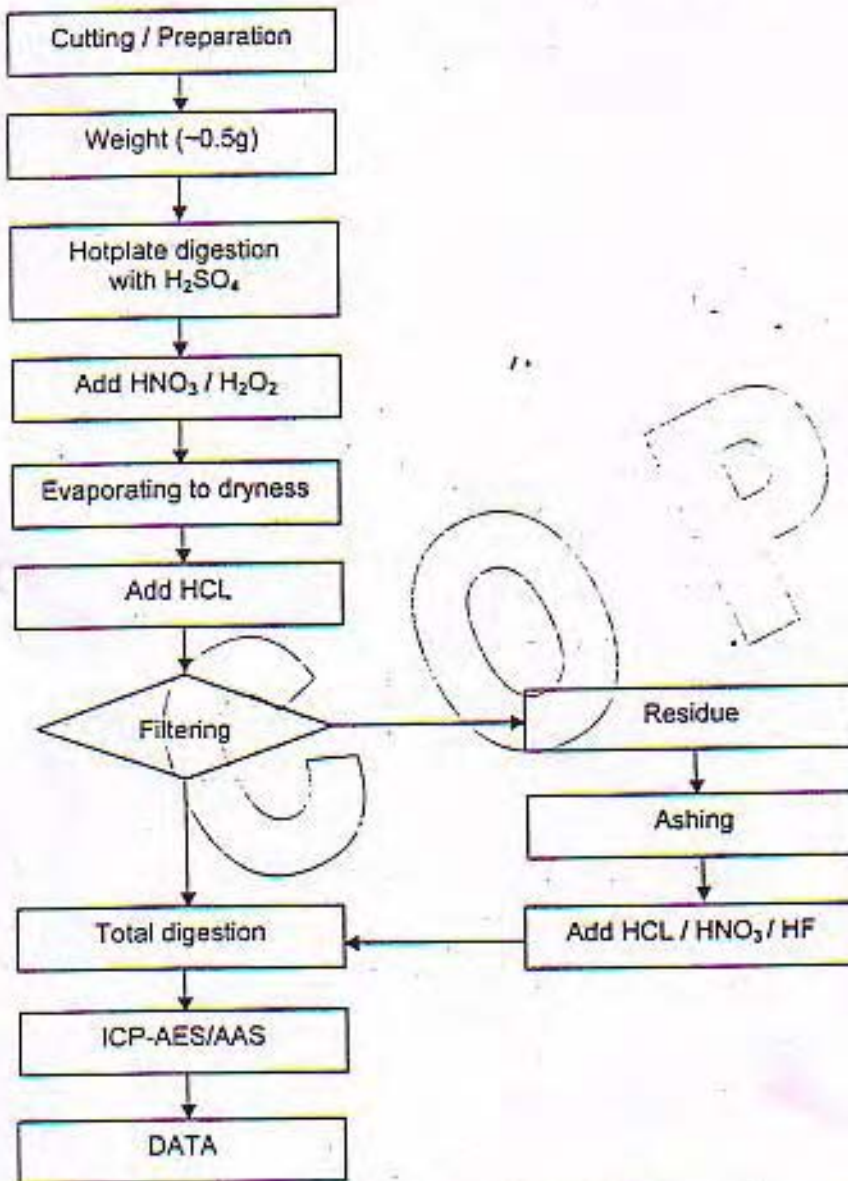
\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.



(2)

Flow chart of digestion (wet decomposition and ashing) (Lead content) :



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Vincent LI  
 Leader : Adams Yu

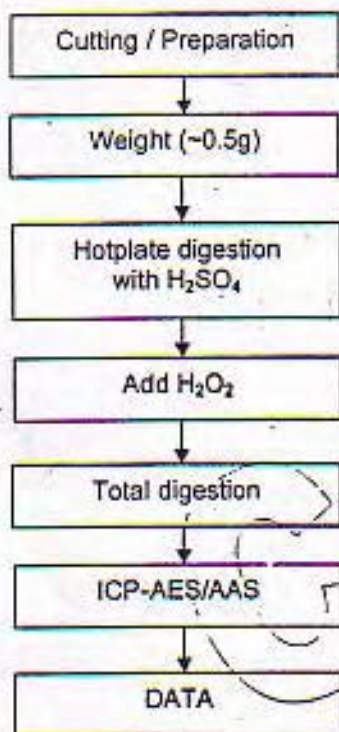
This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.



## ATTACHMENTS

(1)

Flow chart of digestion (Cadmium content):



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Sams Deng  
Leader : Joe Li

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

GZCM 384065



# Test Report

No.: GZ0602013190/CHEM

Date: FEB 17, 2006

Page 1 of 4

JUST MAKE ELECTRONICS CO LTD  
XINIU PI INDUSTRIAL, DALANG TOWN, DONGGUAN

Report on the submitted sample said to be HOUSING (米黄色)

SGS Ref No. : SZ060203731RS-5.1  
 Model No. : JP2411 系列  
 Lot No. : JMT060202  
 Material : NYLON  
 Main substance : NYLON  
 Buyer : SONY, SAMSUNG, LG  
 Supplier : DUPONT  
 Sample Receiving Date : FEB 13, 2006  
 Testing Period : FEB 13, 2006 TO FEB 17, 2006

Test Requested : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.  
 (2) Determination of PBBs (Polybrominated Biphenyls), PBDEs (Polybrominated Diphenylethers) of the submitted sample.

Test method : (1) Cadmium content : With reference to BS EN 1122:2001 Method B see flowchart (1).  
 Lead content : Ashing after wet decomposition see flowchart (2).  
 Mercury content - With reference to EPA 3052: 1996 / 7473: 1998.  
 Hexavalent Chromium content - With reference to EPA 3060A: 1996 & EPA 7196A: 1992.  
 Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / Direct Mercury analyzer / UV-VIS Spectrophotometer.  
 (2) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS.

Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.

Huang Fang, Sunny  
Sr. Engineer

姓名	于显	Pa Method	N/D
职位	魏仕美	Co Method	N/D
Lot#	GZ06001	结果	OK
日期	魏仕美	日期	06-3-15
工号	刘常华	日期	06-3-15

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.





**Results :**

(1)

Item	Unit	MDL	Beige plastic housing
Lead Content (Pb)	ppm	2	N.D.
Cadmium Content (Cd)	ppm	2	N.D.
Mercury Content (Hg)	ppm	2	N.D.
Hexavalent Chromium (Cr VI)	ppm	2	N.D.

Note : - N.D. = Not Detected (< MDL)  
 - MDL = Method Detection Limit  
 - ppm = mg/kg

(2)

	Beige plastic housing
<b>Flame Retardants</b>	
<b>Polybrominated Biphenyls (PBBs)</b>	
Monobromobiphenyl	N.D.
Dibromobiphenyl	N.D.
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	N.D.
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D.
Heptabromobiphenyl	N.D.
Octabromobiphenyl	N.D.
Nonabromodiphenyl	N.D.
Decabromodiphenyl	N.D.
<b>Polybrominated Diphenylethers (PBDEs)</b>	
Monobromodiphenyl ether	N.D.
Dibromodiphenyl ether	N.D.
Tribromodiphenyl ether	N.D.
Tetrabromodiphenyl ether	N.D.
Pentabromodiphenyl ether	N.D.
Hexabromodiphenyl ether	N.D.
Heptabromodiphenyl ether	N.D.
Octabromodiphenyl ether	N.D.
Nonabromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.D.

Note : - N.D. = Not Detected (< 5 ppm)  
 - ppm = mg/kg

\*\*\* End of Report \*\*\*

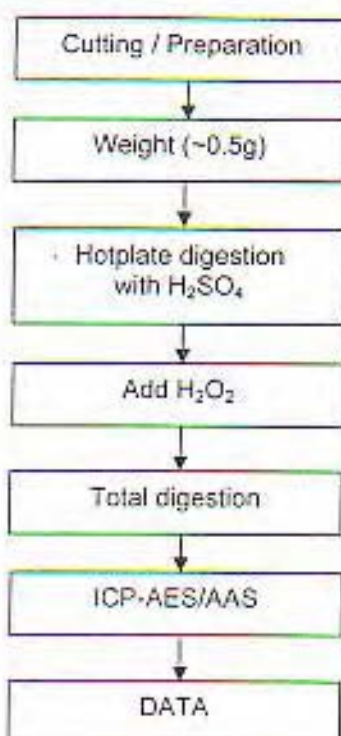
This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.



### ATTACHMENTS

(1)

Flow chart of digestion (Cadmium content) :



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Sams Deng  
Leader : Joe Li

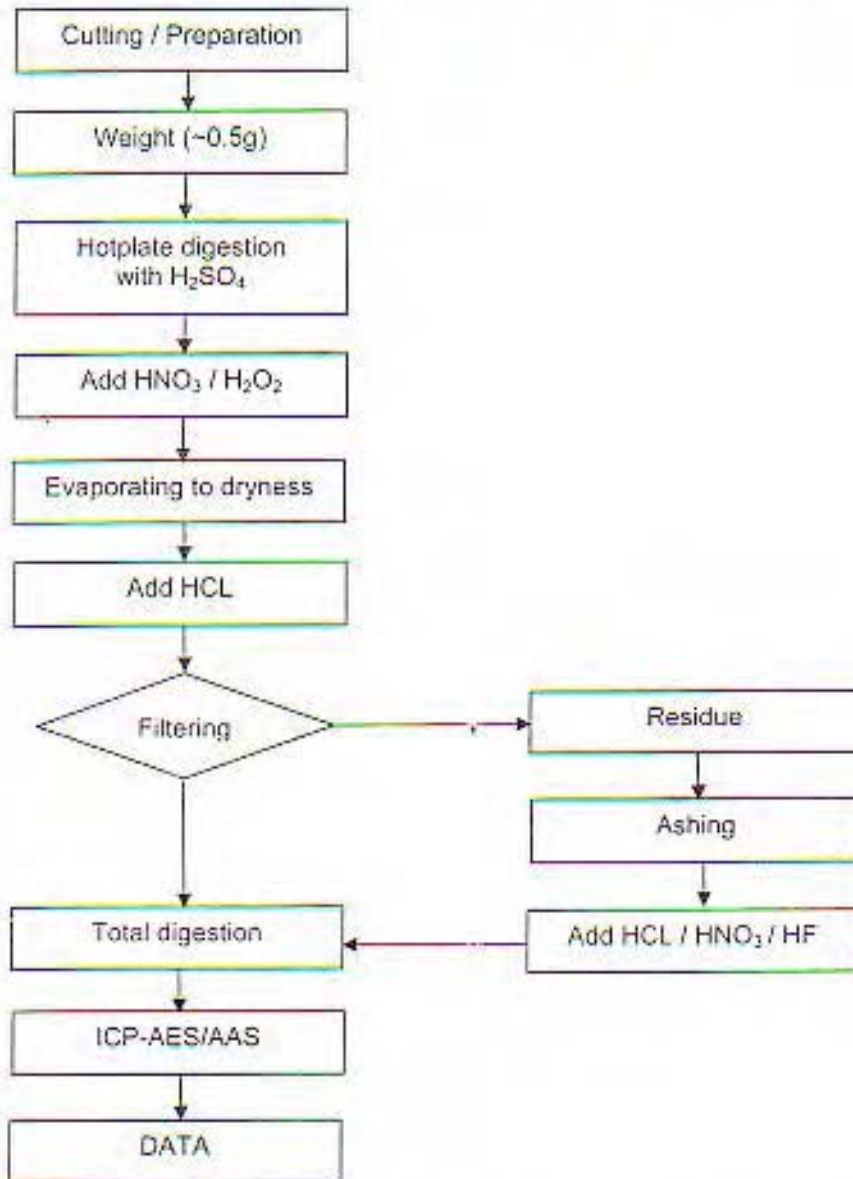
This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.





(2)

Flow chart of digestion (wet decomposition and ashing) (Lead content) :



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Vincent Li  
 Leader : Adams Yu

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.





To: 金一以 現 務 山  
From: 福 品 錄 陳

Te Report

No.: GZSCR051185022/LP\*

Date: NOV 17, 2005

Page 1 of 1

SHIN YUAN ELECTRONIC CO., LTD.  
IN THE ROAD OF BU BU GAO, KONG BA VILLAGE DEVELOPING ZONE, WU SHI A, CHANG AN, DONG GUAN,  
GUANG DONG PROVINCE, CHINA

Report on the submitted sample said to be EXFP32510G6 (SPRING-SUS304)

SGS Ref No. : SZ051123611EC-2.1  
Buyer : KINPO  
Manufacturer/Supplier : KKOS/MANHO/KUANG TAI/DUCK  
Item/Style/Ref. No. : EXFP32510G6  
Sample Receiving Date : NOV 07, 2005  
Testing Period : NOV 07, 2005 TO NOV 11, 2005

Test Requested : As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : Lead content - With reference to EPA method 3050B: 1996 / other acid digestion.  
Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion.  
Mercury content - With reference to EPA 3052: 1996 / 7473: 1998 / other acid digestion.  
Hexavalent Chromium content - With reference to ERA 3060A: 1996 & ERA 7196A: 1992 / acid digestion.  
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / Direct Mercury analyzer / UV-VIS Spectrophotometer.

RESULTS

Lead Content (Pb)	N.D.
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.

Silvery-grey metal spring

Note : - N.D. = Not Detected (< 2 ppm)  
- ppm = mg/kg  
- \* : Revised report

\*\*\* End of Report \*\*\*

Signed for and on behalf of  
SGS-CSTC Ltd.

Zhang Li, Amy  
Sr. Engineer

This report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.



GZCM 365254





## Test Report

No. SH6024497/CHEM

Date: 3.23.2006

Page 1 of 3

SHANGHAI KYOCERA ELECTRONICS CO.,LTD  
NO.2077 NEW JIN QIAO ROAD JIN QIAO PUDONG SHANGHAI

Report on the submitted sample said to be CERAMIC CHIP CAPACITORS.

SGS Ref No. : SHEC0060309876-1  
Model : CM-Y5V

Sample Receiving Date : Mar. 08, 2006  
Testing Period : Mar. 08 - 13, 2006

Test Requested : 1) To determine the Cadmium Content in the submitted sample.  
2) To determine the Lead Content in the submitted sample.  
3) To determine the Mercury Content in the submitted sample.  
4) To determine the Hexavalent Chromium Content on the submitted sample.  
5) To determine the PBBs(Polybrominated biphenyls) PBDEs(PBDEs)  
(Polybrominated biphenyl ethers) Content of the submitted sample.

Test method : 1) With reference to BS EN 1122:2001, Method B or other acid digestion  
Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission  
Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
2) With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion  
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission  
Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
3) With reference to US EPA 3052 or other acid digestion, Analysis was performed by  
Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or  
US EPA7473 Analysis was performed by Hg Analyzer.  
4)With reference to EPA Method 3060A & 7196A.  
The samples were alkaline digested by using EPA Method 3060A, and then  
analyzed by using Colorimetric method 7196A.  
5)With reference to USEPA 8081A/8270D/3540C/3550C, Analysis was performed by  
GC-MS.

Test Results : Please refer to next page

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

Ella Zhang  
Sr. Section Head

## Test Report

No. SH6024497/CHEM

Date: 3.23.2006

Page 2 of 3

### Test Results

No.	Item	Unit	DL	A*
1	Cadmium (Cd)	mg/kg	2	N.D.
2	Lead (Pb)	mg/kg	2	N.D.
3	Mercury (Hg)	mg/kg	2	N.D.
4	Hexavalent Chromium (Cr VI)	mg/kg	2	N.D.
5	Polybrominated biphenyls (PBBs)	—	—	—
	Monobromobiphenyl	mg/kg	5	N.D.
	Dibromobiphenyl	mg/kg	5	N.D.
	Tribromobiphenyl	mg/kg	5	N.D.
	Tetrabromobiphenyl	mg/kg	5	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.
	Hexabromobiphenyl	mg/kg	5	N.D.
	Heptabromobiphenyl	mg/kg	5	N.D.
	Octabromobiphenyl	mg/kg	5	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D.
	Decabromobiphenyl	mg/kg	5	N.D.
	Polybrominated biphenyl ethers (PBDEs)	—	—	—
	Monobromobiphenyl ether	mg/kg	5	N.D.
	Dibromobiphenyl ether	mg/kg	5	N.D.
	Tribromobiphenyl ether	mg/kg	5	N.D.
	Tetrabromobiphenyl ether	mg/kg	5	N.D.
	Pentabromobiphenyl ether	mg/kg	5	N.D.
	Hexabromobiphenyl ether	mg/kg	5	N.D.
	Heptabromobiphenyl ether	mg/kg	5	N.D.
	Octabromobiphenyl ether	mg/kg	5	N.D.
Nonabromobiphenyl ether	mg/kg	5	N.D.	
Decabromobiphenyl ether	mg/kg	5	N.D.	





**Test Report**

No. SH6024497/CHEM

Date: 3.23.2006

Page 3 of 3

Sample Appearance Description (Photo see appendix):

A. Grey capacitor (mix all)

Note : 1mg/kg=1ppm=0.0001%

DL= Detection Limit

N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

\*The sample(s) was analyzed on behalf of the applicant as mixing whole/part sample in one testing.

The result(s) in report means average of whole sample. The result(s) will be different obviously if the sample(s) was tested as requirement of RoHS, and result(s) may be higher than that of report. The applicant will take the responsibility of all discrepancy and risk.

\*\*\* End of Report \*\*\*



**Test Report**

No. SH6023992/CHEM

Date: 3.23.2006

Page 1 of 3

SHANGHAI KYOCERA ELECTRONICS CO., LTD  
NO.2077 NEW JIN QIAO ROAD JIN QIAO PUDONG SHANGHAI

Report on the submitted sample said to be CERAMIC CHIP CAPACITORS.

SGS Ref No. : SHEC0060207449  
Model : CM-X5R (X7R)

Sample Receiving Date : Mar. 08, 2006  
Testing Period : Mar. 08 - 13, 2006

Test Requested : 1) To determine the Cadmium Content in the submitted sample.  
2) To determine the Lead Content in the submitted sample.  
3) To determine the Mercury Content in the submitted sample.  
4) To determine the Hexavalent Chromium Content on the submitted sample.  
5) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs)  
(Polybrominated biphenyl ethers) Content of the submitted sample.

Test Method : 1) With reference to BS EN 1122:2001, Method B, or other acid digestion.  
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
2) With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion  
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
3) With reference to US EPA 3052 or other acid digestion, Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.  
4) With reference to EPA Method 3060A & 7196A.  
The samples were alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A.  
5) With reference to USEPA 8081A/8270D/3540C/3550C, Analysis was performed by GC-MS.

Test Results : Please refer to next page

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

Ella Zhang  
Sr. Section Head

The release of this electronic report by SGS RSTS Database system is subject to the terms and conditions of SGS RSTS Database service and those applied to the original hardcopy report. For the purpose of your reference only, this electronic copy is in accordance with the issued report. User of the electronic report shall note that SGS authenticates only the electronic report directly downloaded from SGS RSTS Database system.





**Test Report**

No. SH6023992/CHEM

Date: 3.23.2006

Page 2 of 3

**Test Results**

No.	Item	Unit	DL	A*
1	Cadmium (Cd)	mg/kg	2	N.D.
2	Lead (Pb)	mg/kg	2	N.D.
3	Mercury (Hg)	mg/kg	2	N.D.
4	Hexavalent Chromium (Cr VI)	mg/kg	2	N.D.
5	Polybrominated biphenyls (PBBs)	—	—	—
	Monobromobiphenyl	mg/kg	5	N.D.
	Dibromobiphenyl	mg/kg	5	N.D.
	Tri bromobiphenyl	mg/kg	5	N.D.
	Tetrabromobiphenyl	mg/kg	5	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.
	Hexabromobiphenyl	mg/kg	5	N.D.
	Heptabromobiphenyl	mg/kg	5	N.D.
	Octabromobiphenyl	mg/kg	5	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D.
	Decabromobiphenyl	mg/kg	5	N.D.
	Polybrominated biphenyl ethers (PBDEs)	—	—	—
	Monobromobiphenyl ether	mg/kg	5	N.D.
	Dibromobiphenyl ether	mg/kg	5	N.D.
	Tri bromobiphenyl ether	mg/kg	5	N.D.
	Tetrabromobiphenyl ether	mg/kg	5	N.D.
	Pentabromobiphenyl ether	mg/kg	5	N.D.
	Hexabromobiphenyl ether	mg/kg	5	N.D.
	Heptabromobiphenyl ether	mg/kg	5	N.D.
	Octabromobiphenyl ether	mg/kg	5	N.D.
Nonabromobiphenyl ether	mg/kg	5	N.D.	
Decabromobiphenyl ether	mg/kg	5	N.D.	

The release of this electronic report by SGS RSTS Database system is subject to the terms and conditions of SGS RSTS Database service and those applied to the original hardcopy report. For the purpose of your reference only, this electronic copy is in accordance with the issued report. User of the electronic report shall note that SGS authenticates only the electronic report directly downloaded from SGS RSTS Database system.



**Test Report**

No. SH6023992/CHEM

Date: 3.23.2006

Page 3 of 3

Sample Appearance Description (Photo see appendix):  
A. Light grey capacitor (mix all)

Note : 1mg/kg=1ppm=0.0001%

DL= Detection Limit

N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

\*The sample(s) was analyzed on behalf of the applicant as mixing whole/part sample in one testing.  
The result(s) in report means average of whole sample. The result(s) will be different obviously if the sample(s) was tested as requirement of RoHS, and result(s) may be higher than that of report. The applicant will take the responsibility of all discrepancy and risk.

\*\*\* End of Report \*\*\*



## Test Report

No. 2074452/EC

Date : Sep 13 2006

Page 1 of 3

NUCOMTRONIC COMPANY LIMITED  
YONGKOU VILLAGE HOUJIE TOWN  
DONGGUAN CITY DONGGUAN

Report on the submitted sample said to be CAPACITOR (電容).

SGS Job No. : 1030780  
SGS Ref. No. : SZ10065914-4.4  
Material : NPO  
Sample Receiving Date : SEP 07 2006  
Testing Period : SEP 07-13 2006

Test Requested : (1-3) With reference to the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to EPA Method 3051A/ 3052 for Cadmium, Lead and Mercury content.  
Analysis was performed by ICP/ AAS.  
(2) With reference to EPA Method 3060A & 7196A for Hexavalent Chromium content.  
The sample was alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A (by UV-Vis Spectrophotometer).  
(3) With reference to EPA Method 3540C/ 3550C for PBB/ PBDE content.  
Analysis was performed by GC/MS

Test Results : Please refer to next page.

Conclusion : Based on the performed tests on submitted sample, the result indicates no conflict with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of  
SGS Hong Kong Ltd



Wan Chi Wai, Leo  
Technical Manager

H13770884

## Test Report

No. 2074452/EC

Date : Sep 13 2006

Page 2 of 3

Test results by chemical method (Unit: mg/kg)

1-3)

	1	MDL	Limit
Cadmium(Cd)	ND	2	100
Lead (Pb)	ND	2	1000
Mercury (Hg)	ND	2	1000
Hexavalent Chromium (CrVI) by EPA 3060A	ND	2	1000
<b>Polybrominated Biphenyl (PBBs)</b>	<b>ND</b>	<b>50</b>	<b>1000</b>
Monobromobiphenyl	ND	5	
Dibromobiphenyl	ND	5	
Tribromobiphenyl	ND	5	
Tetrabromobiphenyl	ND	5	
Hexabromobiphenyl	ND	5	
Pentabromobiphenyl	ND	5	
Heptabromobiphenyl	ND	5	
Octabromobiphenyl	ND	5	
Nonabromobiphenyl	ND	5	
Decabromobiphenyl	ND	5	
<b>Polybrominated Diphenylethers (PBDEs)*</b>	<b>ND</b>	<b>45</b>	<b>1000</b>
Monobromodiphenyl ether	ND	5	
Dibromodiphenyl ether	ND	5	
Tribromodiphenyl ether	ND	5	
Tetrabromodiphenyl ether	ND	5	
Pentabromodiphenyl ether	ND	5	
Hexabromodiphenyl ether	ND	5	
Heptabromodiphenyl ether	ND	5	
Octabromodiphenyl ether	ND	5	
Nonabromodiphenyl ether	ND	5	
Decabromodiphenyl ether*	ND	5	
<b>Sum PBDE (Mono to Deca) *</b>	<b>ND</b>	<b>50</b>	

Note :

- (1) mg/kg = ppm
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (Less than MDL)
- (4) < = Less Than
- (5) \* = sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
- (6) -- = Not Conducted
- (7) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC

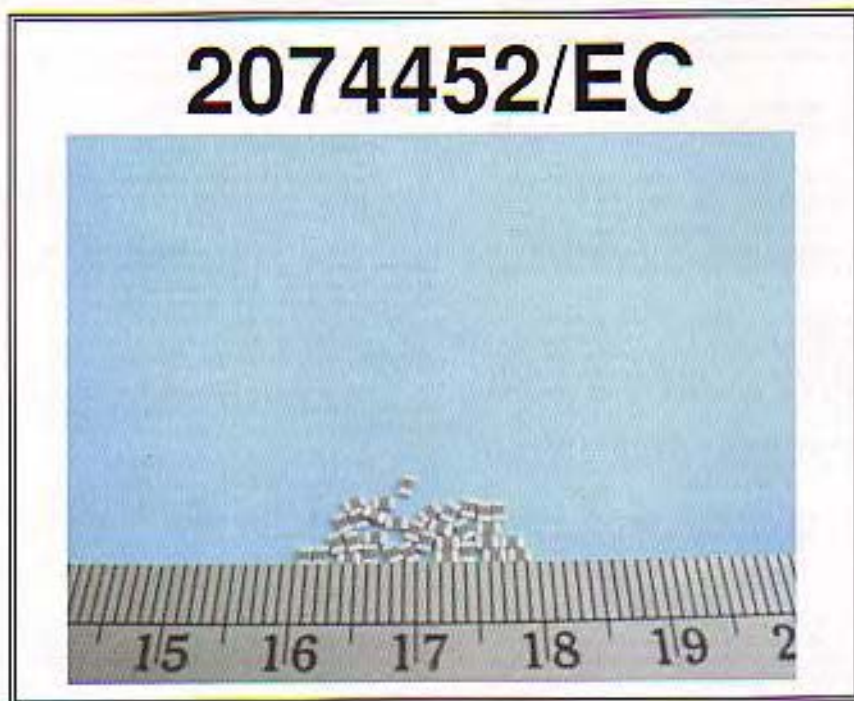
Sample Description :

1. Dk. Grey Ceramic w/ Silvery Metal

H13770885



Sample photo :



SGS authenticate the photo on original report only

\*\*\*End of Report\*\*\*

## Test Report

No. SH6076118/CHEM

Date: Jun. 26, 2006

Page 1 of 3

UNIROYAL ELECTRONICS INDUSTRY CO., LTD  
21 XIAJIA NORTH ROAD, ECONOMIC & TECHNICAL DEVELOPMENT ZONE, KUNSHAN CITY, JIANGSU

Report on the submitted sample said to be THICK FILM CHIP RESISTORS(TERMINAL LEAD FREE)

SGS Ref No. 10009807-3  
Buyer ASUS  
Supplier Model No \*\*\*\*SAF\*\*\*\*B\*\*

Sample Receiving Date Jun.21, 2006  
Testing Period Jun.21-26, 2006

Test Requested


- 1) To determine the Cadmium Content of the submitted sample.
- 2) To determine the Lead content of the submitted sample.
- 3) To determine Mercury Content of the submitted sample.
- 4) To determination of the presence of Hexavalent Chromium Cr(VI) in the submitted sample.
- 5) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs) (Polybrominated biphenyl ethers) Content of the submitted sample.

Test method

- 1) With reference to BS EN 1122:2001, Method B or other acid digestion Analysis was performed by inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry
- 2) With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry
- 3) With reference to US EPA 3052 or other acid digestion, Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.
- 4) Nonmetallic sample: With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 10.1) - alkaline digestion Procedure.
- 5) With reference to USEPA 8061A/8270D/3540C/3550C, Analysis was performed by GC-MS

Test Results: Please refer to next page

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

  
Ella Zhang  
Sr. Section Head

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the samples tested unless otherwise stated and such sample(s) are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.



SHCHEM 813386



## Test Report

No. SH6076118/CHEM

Date: Jun. 26, 2006

Page 2 of 3

### Test Results

No.	Item	Unit	DL	AT
1	Cadmium (Cd)	mg/kg	2	N.D.
2	Lead (Pb)	mg/kg	2	N.D.
3	Mercury (Hg)	mg/kg	2	N.D.
4	Hexavalent Chromium [Cr(VI)]	mg/kg	2	N.D.
5	Polybrominated biphenyls (PBBs)	---	---	---
	Monobromobiphenyl	mg/kg	5	N.D.
	Dibromobiphenyl	mg/kg	5	N.D.
	Tribromobiphenyl	mg/kg	5	N.D.
	Tetrabromobiphenyl	mg/kg	5	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.
	Hexabromobiphenyl	mg/kg	5	N.D.
	Heptabromobiphenyl	mg/kg	5	N.D.
	Octabromobiphenyl	mg/kg	5	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D.
	Decabromobiphenyl	mg/kg	5	N.D.
	Polybrominated biphenyl ethers (PBDEs)	---	---	---
	Monobromobiphenyl ether	mg/kg	5	N.D.
	Dibromobiphenyl ether	mg/kg	5	N.D.
	Tribromobiphenyl ether	mg/kg	5	N.D.
	Tetrabromobiphenyl ether	mg/kg	5	N.D.
	Pentabromobiphenyl ether	mg/kg	5	N.D.
	Hexabromobiphenyl ether	mg/kg	5	N.D.
	Heptabromobiphenyl ether	mg/kg	5	N.D.
	Octabromobiphenyl ether	mg/kg	5	N.D.
Nonabromobiphenyl ether	mg/kg	5	N.D.	
Decabromobiphenyl ether	mg/kg	5	N.D.	

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies set forth therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.

**SHCHEM 813385**



**Test Report**

No. SH6076118/CHEM

Date Jun. 26, 2006

Page 3 of 3

Sample Appearance Description (Photo see appendix)

A. Black-white resistor body (mix a)

Note 1mg/kg=1ppm=0.0001%

DL= Detection Limit

N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value

\* The sample was analyzed on behalf of the applicant as mixing whole sample in one testing. The result in report means average of whole sample. The result will be different obviously if the sample was/were tested as requirement of ROHS, and result may be higher than that of report. The applicant will take the responsibility of all discrepancy and risk.

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested (unless otherwise stated and such sample(s) are retained for 90 days). This Test Report shall not be reproduced except in full, without written approval of the Company.



**SHCHEM 813384**

SGS-CTI (Shanghai) Inspection Co., Ltd.  
Suzhou Branch

11/F, 3rd Building, No. 888, Yixian Road, Shanghai, China 200233  
中国·上海·宜先路888号3号楼11层 邮编 200233

+86-21-54589127  
+86-21-54589128

+86-21-54589129 [www.sgs.com](http://www.sgs.com)  
+86-21-54589131 [sgs@china.sgs.com](mailto:sgs@china.sgs.com)

Member of the SGS Group (SGS SA)

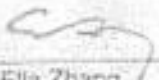


## PHOTO APPENDIX



SGS authenticate the photo on original report only.

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

  
Ella Zhang  
Sr. Section Head

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the samples tested unless otherwise stated and such samples are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.

SGS

## Test Report

No.: GZSCR051082051/LP

Date: NOV 04, 2005

Page 1 of 2

HANG WON ELECTRONICS CO., LTD.  
SHEN ZHEN TIAN WANG TECHNOLOGY DEVELOPMENT CO., LTD  
UNIT 6-7, BLOCK B 5/F, CHUNGMEI CENTRE, 15 HING YIP ST., KWUN TONG KIN, H.K.

Report on the submitted sample said to be SOT 系列(包含 SOT-23/323/343/353/363/223/89, SOD-123/323/523 DO-214, LL-34 TO -92/126)

SGS Ref No. : SZ051022755EC\*  
Buyer : SONY  
Manufacturer/Supplier : SOT 系列(包含 SOT-23/323/343/353/363/223/89, SOD-123/323/523, DO-214, LL-34 TO -92/126)  
Sample Receiving Date : OCT 28, 2005  
Testing Period : OCT 28, 2005 TO NOV 03, 2005

Test Requested : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.  
(2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test method : (1) Lead content - With reference to EPA method 3050B: 1996 / other acid digestion.  
Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion.  
Mercury content - With reference to EPA 3052: 1996 / 7473: 1998 / other acid digestion.  
Hexavalent Chromium content - With reference to EPA 3060A : 1996 & EPA 7196A : 1992.  
Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.  
(2) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS.

Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.



Zhang Li, Amy  
Sr. Engineer

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

**GZCM 340660**



## Test Report

No.: GZSCR051082051/LP

Date: NOV 04, 2005

Page 2 of 2

### Results :

(1)

	No.1
Lead Content (Pb)	N.D.
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.

Note : - N.D. = Not Detected (< 2 ppm)  
- ppm = mg/kg

(2)

	No.1
<b>Flame Retardants</b>	
<b>Polybrominated Biphenyls (PBBs)</b>	
Monobromobiphenyl	ND
Dibromobiphenyl	ND
Tribromobiphenyl	ND
Tetrabromobiphenyl	ND
Pentabromobiphenyl	ND
Hexabromobiphenyl	ND
Heptabromobiphenyl	ND
Octabromobiphenyl	ND
Nonabromodiphenyl	ND
Decabromodiphenyl	ND
<b>Polybrominated Diphenylethers (PBDEs)</b>	
Monobromodiphenyl ether	ND
Dibromodiphenyl ether	ND
Tribromodiphenyl ether	ND
Tetrabromodiphenyl ether	ND
Pentabromodiphenyl ether	ND
Hexabromodiphenyl ether	ND
Heptabromodiphenyl ether	ND
Octabromodiphenyl ether	ND
Nonabromodiphenyl ether	ND
Decabromodiphenyl ether	ND

Note : - N.D. = Not Detected (< 5 ppm)  
- ppm = mg/kg

### Specimen description:

No.1 Golden printed black body w/ silvery metal pin (mixed)

Remark : The sample was analyzed on behalf of the applicant as mixing whole / part sample in one testing.  
The result in report means average of whole sample. The result may deviate from the real data represented by homogeneous material as requested by RoHS.

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

**GZCM 340661**

23) 頌泰

树脂保持器

银轴



Test Report

No. SH6015383/CHEM

Date: Feb. 22, 2006

Page 1 of 2

MINEBEA ELECTRONICS & HI-TECH COMPONENTS (SHANGHAI) LTD  
NO. 8313, HUQINGPING ROAD, JINZE TOWN, QINGPU DISTRICT, SHANGHAI, 201721 CHINA

Report on the submitted sample said to be RETAINER.

SGS Ref No. : SHEC0060206053-2  
Model : A3HG2  
Material : NYLON66RESIN+GF

Sample Receiving Date : Feb. 17, 2006  
Testing Period : Feb. 17 - 22, 2006

Test Requested : 1) To determine the Cadmium Content in the submitted sample.  
2) To determine the Lead Content in the submitted sample.  
3) To determine the Mercury Content in the submitted sample.  
4) To determine the Hexavalent Chromium Content on the submitted sample.  
5) To determine the PBBs(Polybrominated biphenyls) PBDEs(PBDEs)  
(Polybrominated biphenyl ethers) Content of the submitted sample.

Test Method : 1) With reference to BS EN 1122:2001, Method B, or other acid digestion.  
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
2) With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion.  
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
3) With reference to US EPA 3052 or other acid digestion, Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.  
4) With reference to EPA Method 3060A & 7196A.  
The samples were alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A.  
5) With reference to USEPA 8081A/8270D/3540C/3550C, Analysis was performed by GC-MS.

Test Results : Please refer to next page

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

Ella Zhang  
Sr. Section Head

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.



SHCHEM 478426

10/F, 5rd Building, No.889, Yixian Road, Shanghai, China 200233 | (86-21)61402885 \* 2720 | (86-21)54500314 | [www.cn.sgs.com](http://www.cn.sgs.com)  
中国·上海·宜山路889号3号楼10层 | 邮编:200233 | (86-21)61402553 | (86-21)64500314 | [sgs.cn@sgs.com](mailto:sgs.cn@sgs.com)

NO. 095

SGS E&E LAB RST





Test Report

No. SH6018383/CHEM

Date: Feb. 22, 2006

Page 2 of 2

Test Results

No.	Item	Unit	DL	A
1	Cadmium (Cd)	mg/kg	2	N.D.
2	Lead (Pb)	mg/kg	2	N.D.
3	Mercury (Hg)	mg/kg	2	N.D.
4	Hexavalent Chromium (Cr VI)	mg/kg	2	N.D.
5	Polybrominated biphenyls (PBBs)	---	---	---
	Monobromobiphenyl	mg/kg	5	N.D.
	Dibromobiphenyl	mg/kg	5	N.D.
	Tribromobiphenyl	mg/kg	5	N.D.
	Tetrabromobiphenyl	mg/kg	5	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.
	Hexabromobiphenyl	mg/kg	5	N.D.
	Heptabromobiphenyl	mg/kg	5	N.D.
	Octabromobiphenyl	mg/kg	5	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D.
	Decabromobiphenyl	mg/kg	5	N.D.
	Polybrominated biphenyl ethers (PBDEs)	---	---	---
	Monobromobiphenyl ether	mg/kg	5	N.D.
	Dibromobiphenyl ether	mg/kg	5	N.D.
	Tribromobiphenyl ether	mg/kg	5	N.D.
	Tetrabromobiphenyl ether	mg/kg	5	N.D.
	Pentabromobiphenyl ether	mg/kg	5	N.D.
	Hexabromobiphenyl ether	mg/kg	5	N.D.
	Heptabromobiphenyl ether	mg/kg	5	N.D.
	Octabromobiphenyl ether	mg/kg	5	N.D.
Nonabromobiphenyl ether	mg/kg	5	N.D.	
Decabromobiphenyl ether	mg/kg	5	N.D.	

Sample Appearance Description(Photo see appendix):

A. Dark brown plastic

Note : 1mg/kg=1ppm=0.0001%

DL= Detection Limit

N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.



10/F, 3rd Building, No.888, Yishan Road, Shanghai, China 200235  
中国·上海·宜山路888号3号楼10层

Tel: (86-21) 41402266-2720  
Tel: (86-21) 41402553

Fax: (86-21) 54500514  
Fax: (86-21) 54500314

www.cn.sgs.com  
sgs.china@sgs.com

SHCHEM 473425

NO. 995

25 JAN 2007 16:57 (Société)SGS E&E LAB RST



防尘盖



Test Report

No. SH6015391/CHEM

Date: Feb. 22, 2006

Page 1 of 2

MINEBEA ELECTRONICS & HI-TECH COMPONENTS (SHANGHAI) LTD  
NO. 8313, HUQINGPING ROAD, JINZE TOWN, QINGPU DISTRICT, SHANGHAI, 201721 CHINA

Report on the submitted sample said to be COVER.

SGS Ref No. : SHEC0060206053-6

Material : SECC

Sample Receiving Date : Feb. 17, 2006

Testing Period : Feb. 17 - 22, 2006

Test Requested : 1) To determine the Cadmium Content in the submitted sample.  
2) To determine the Lead Content in the submitted sample.  
3) To determine the Mercury Content in the submitted sample.  
4) To determine the Hexavalent Chromium Content on the submitted sample.

Test Method : 1) With reference to BS EN 1122:2001, Method B; or other acid digestion. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
2) With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
3) With reference to US EPA 3052 or other acid digestion, Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.  
4) With reference to EPA Method 3060A & 7196A. The samples were alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A.

Test Results : Please refer to next page

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

Ella Zhang  
Sr. Section Head

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days only. This Test Report shall not be reproduced, except in full, without written approval of the Company.



10/F, 3rd Building, No. 829, Yishan Road, Shanghai, China 200233 t (86-21) 51402688 \* 2723 f (86-21) 54530314 www.ch.sgs.com  
中国·上海·宜山路829号3号楼10层 邮编: 200233 t (86-21) 61402543 f (86-21) 54564314 e sgs.china@sgs.com

SHCHEM 450193

23 JAN 2007 11:02 (SGS) E&E LAB RST

NO. 995 F. 13





Test Report

No. SR6015391/CHEM

Date: Feb. 22, 2006

Page 2 of 2

Test Results

No.	Item	Unit	DL	A
1	Cadmium (Cd)	mg/kg	2	N.D.
2	Lead (Pb)	mg/kg	2	N.D.
3	Mercury (Hg)	mg/kg	2	N.D.
4	Hexavalent Chromium (Cr VI)*	mg/kg	2	N.D.

Sample Appearance Description (Photo see appendix):

A. Silvery-grey metal

Note : 1mg/kg=1ppm=0.0001%

DL= Detection Limit

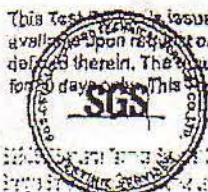
N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

\* As requested by client, EPA 3060A/7198A were used for determination of the sample

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.



10/F, 3rd Building, No. 888, Yixian Road, Shanghai, China 200233  
中国·上海·宜山路888号3号楼10层 邮编:200233

t (86-21) 5102866-2720  
f (86-21) 5101401453

f (86-21) 54500314  
f (86-21) 54500314

www.cn.sgs.com  
sgs.china.com

SHCHEM 470186

NO. 995 P. 14

23 JAN 2007 17:02 (SGS E&E LAB RST)

内轮外轮 Ball



Test Report

No. SH6015393/CHEM

Date: Feb. 22, 2006

Page 1 of 2

MINEBEA ELECTRONICS & HI-TECH COMPONENTS (SHANGHAI) LTD  
NO. 8313, HUQINGPING ROAD, JINZE TOWN, QINGPU DISTRICT, SHANGHAI, 201721 CHINA

Report on the submitted sample said to be STEEL.

SGS Ref No. : SHEC0060206053-7  
Model :  $\Phi 12.5$  AND  $\Phi 15.8$   
Material : SAE52100SF AND SUJ 2 MDSF

Sample Receiving Date : Feb. 17, 2006  
Testing Period : Feb. 17 - 22, 2006

Test Requested : 1) To determine the Cadmium Content in the submitted sample.  
2) To determine the Lead Content in the submitted sample.  
3) To determine the Mercury Content in the submitted sample.  
4) To determine the Hexavalent Chromium Content on the submitted sample.

Test Method : 1) With reference to BS EN 1122:2001, Method B, or other acid digestion.  
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
2) With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion  
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
3) With reference to US EPA 3062 or other acid digestion, Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.  
4) With reference to EPA Method 3060A & 7196A.  
The samples were alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A.

Test Results : Please refer to next page

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

Ella Zhang  
Sr. Section Head

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.



40/F, 3rd Building, No.889, Yishan Road, Shanghai, China 200233 | 1 (86-21)61402669 \* 2720 | f (86-21)54500314 | www.cn.sgs.com  
中国·上海·宜山路889号3号楼10层 邮编:200233 | 1 (86-21)61402553 | f (86-21)54500314 | e sgs.china@sgs.com

SHCHEM 470222

NO. 995

23 JAN 2007 1:00:17 (Société) SGS E&E LAB RST





Test Report

No. SH8015393/CHEM

Date: Feb. 22, 2006

Page 2 of 2

Test Results

No.	Item	Unit	DL	No.1	No.2
1	Cadmium (Cd)	mg/kg	2	N.D.	N.D.
2	Lead (Pb)	mg/kg	2	N.D.	N.D.
3	Mercury (Hg)	mg/kg	2	N.D.	N.D.
4	Hexavalent Chromium (Cr VI)*	mg/kg	2	N.D.	N.D.

Sample Appearance Description(Photo see appendix):

No.1 Black-grey metal(Φ12.5)

No.2 Black-grey metal(Φ15.8)

Note : 1mg/kg=1ppm=0.0001%

DL= Detection Limit

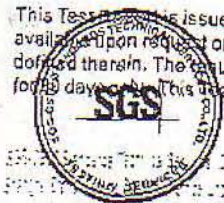
N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

\* As requested by client, EPA 3060A/7196A were used for determination of the sample

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.



10/F, 3rd Building, No.889, Yishan Road, Shanghai, China 200233

中国·上海·宜山路889号3号楼10层 邮编:200233

t (86-21)61402663-2720

f (86-21)61402553

f (86-21)54600314

f (86-21)54500314

www.cn.sgs.com

e sgs.china@sgs.com

SHCHEM 470251

NO.995

23 JAN 2007 17:04 (SGS) E&E LAB RST



油脂

**SGS****Test Report**

No. SH6015381/CHEM

Date: Feb. 23, 2006

Page 1 of 3

MINEBEA ELECTRONICS & HI-TECH COMPONENTS (SHANGHAI) LTD  
NO. 8313, HUQINGPING ROAD, JINZE TOWN, QINGPU DISTRICT, SHANGHAI, 201721 CHINA

Report on the submitted sample said to be GREASE.

SGS Ref No. : SHEC0060206053-1  
Model : No.1: LY-121; No.2: LY-438; No.3: LY-552

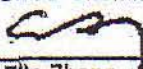
Sample Receiving Date : Feb. 17, 2006  
Testing Period : Feb. 17 - 23, 2006

Test Requested : 1) To determine the Cadmium Content in the submitted sample.  
2) To determine the Lead Content in the submitted sample.  
3) To determine the Mercury Content in the submitted sample.  
4) To determine the Hexavalent Chromium Content on the submitted sample.  
5) To determine the PBBs(Polybrominated biphenyls) PBDEs(PBDEs)  
(Polybrominated biphenyl ethers) Content of the submitted sample.

Test Method : 1) With reference to BS EN 1122:2001, Method B, or other acid digestion.  
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
2) With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion  
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
3) With reference to US EPA 3052 or other acid digestion, Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.  
4) With reference to EPA Method 3060A & 7196A.  
The samples were alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A.  
5) With reference to USEPA 8081A/8270D/3540C/3550G, Analysis was performed by GC-MS.

Test Results : Please refer to next page

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

  
Ella Zhang  
Sr. Section Head

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

SGS-CSTC Chemical Laboratory  
10/F, 3rd Building, No. 889, Yishan Road, Shanghai, China 200233  
中国·上海·宜山路889号3号楼10楼 邮编:200233

10/F, 3rd Building, No. 889, Yishan Road, Shanghai, China 200233  
中国·上海·宜山路889号3号楼10楼 邮编:200233

(86-21)31402653-2720  
(86-21)31402653

(86-21)24580314  
(86-21)24580314

[www.cn.sgs.com](http://www.cn.sgs.com)  
[sgs.china@sgs.com](mailto:sgs.china@sgs.com)

SHCHEM 471687



# SGS

## Test Report

No. SH6015381/CHEM

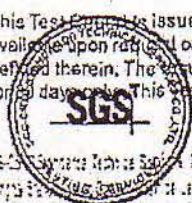
Date: Feb. 23, 2006

Page 2 of 3

### Test Results

No.	Item	Unit	DL	No.1	No.2	No.3
1	Cadmium (Cd)	mg/kg	2	N.D.	N.D.	N.D.
2	Lead (Pb)	mg/kg	2	N.D.	N.D.	N.D.
3	Mercury (Hg)	mg/kg	2	N.D.	N.D.	N.D.
4	Hexavalent Chromium (Cr VI)	mg/kg	2	N.D.	N.D.	N.D.
5	Polybrominated biphenyls (PBBs)	---	---	---	---	---
	Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Decabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Polybrominated biphenyl ethers (PBDEs(PBDEs))	---	---	---	---	---
	Monobromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.
	Dibromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.
	Tribromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.
	Tetrabromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.
	Pentabromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.
	Hexabromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.
	Heptabromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.
	Octabromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.
Nonabromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Decabromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.



10/F, 3rd Building, No.889, Yishan Road, Shanghai, China 200233 | (86-21)61402568\*2720 | (86-21)54500314 | [www.cn.sgs.com](http://www.cn.sgs.com)  
 中国·上海·宜山路889号3号楼10层 | 邮编:200233 | (86-21)61402553 | (86-21)54500314 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of SGS Group (Société Générale de Surveillance)





Test Report

No. SH6015381/CHEM

Date: Feb. 23, 2006

Page 3 of 3

Sample Appearance Description (Photo see appendix):

- No.1 Beige dope
- No.2 Beige-yellow dope
- No.3 Beige-yellow dope

Note : 1mg/kg=1ppm=0.0001%

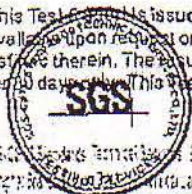
DL= Detection Limit

N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.



SHCHEM 471885

SGS (China) Limited	1015, 3rd Building, No. 880, Yishan Road, Shanghai, China 200233	t (86-21) 61402665 * 2720	f (86-21) 61450031	www.cn.sgs.com
中国·上海·宜山路880号3号楼10层	邮编: 200233	t (86-21) 61402665	f (86-21) 61450031	sgs.cn@sgs.com





TO: 鑫發/IQC 莫小姐(收)

Test Report

No.: SZTYR050413858/LP

Date: MAY 13, 2006

Page 1 of 2

XINCHENG PAOMIAN JIAODIAN  
PRODUCT CO., LTD.  
LIANYIN AREA, QIAOTOU TOWN,  
DONGGUAN CITY

Report on the submitted samples said to be used for PE 汽泡袋

Country of Destination : EUROPE  
Sample Receiving Date : APR 30, 2006  
Testing Period : MAY 07, 2006 - MAY 12, 2006

Test Requested : To determine Total Lead, Cadmium, Mercury and Hexavalent Chromium content in the submitted packaging samples.

Test Method : Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer.

Notes : Please refer to next page.

Conclusion : The Total Lead, Cadmium, Mercury and Hexavalent Chromium content in the submitted packaging samples comply with the requirement of US CONEG Model Toxics in Packaging Legislation, and European Council Directive 94/62/EC - Article 11 that effective June 2001.

Tested for and on behalf of  
XINCHENG PAOMIAN JIAODIAN

Helen  
Test Manager

This report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available on request or are accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies contained therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for reference. This Test Report shall not be reproduced except in full, without written approval of the Company.

332543

3F4/FNE, Qianxi Building, Zhongkang Road, Shengzhen, Shenzhen China 518049 t (86-755)83114268 f (86-755)83106190 83118034 www.cn.sgs.com

Member of SGS Group (Société Générale de Surveillance)





TO: 金榮/IQC 蘇小雲(啟)

Test Report

No.: SZTYR050413856/LP

Date: MAY 13, 2006

Page 1 of 2

Results:

LOT

Transparent plastic film

Lead [Pb]	< 2
Cadmium [Cd]	< 2
Mercury [Hg]	< 2
Hexavalent Chromium [Cr(VI)]	< 2
Total [Pb + Cd + Cr(VI) + Hg]	< 8
Total Limit	100

Note: - < = Less than  
- The unit of results is mg per kg

Flame Retardants	Transparent plastic film	Detection Limit (ppm)
<b>Polybrominated Biphenyls (PBBs)</b>		
Monobromobiphenyl	ND	5
Dibromobiphenyl	ND	5
Tribromobiphenyl	ND	5
Tetrabromobiphenyl	ND	5
Pentabromobiphenyl	ND	5
Hexabromobiphenyl	ND	5
Heptabromobiphenyl	ND	5
Octabromobiphenyl	ND	5
Nonabromobiphenyl	ND	5
Decabromobiphenyl	ND	5
<b>Polybrominated Diphenylether (PBDEs)</b>		
M-bromodiphenyl ether	ND	5
D-bromodiphenyl ether	ND	5
T-bromodiphenyl ether	ND	5
Tetra-bromodiphenyl ether	ND	5
Penta-bromodiphenyl ether	ND	5
Hexa-bromodiphenyl ether	ND	5
Hepta-bromodiphenyl ether	ND	5
Octa-bromodiphenyl ether	ND	5
Nona-bromodiphenyl ether	ND	5
Deca-bromodiphenyl ether	ND	5

Note: ND = Not Detected (< 5ppm)  
Non-detected is lower than detection limit value.

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies stated therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

332544

2/F AFSP, Oscar Building, Zhongyuan Road, Shuangzhen, Shenzhen, China 518048 T (86-755)8314308 F (86-755)83106190 E 3113534 www.cn.sgs.com

Member of SGS Group (Société Générale de Surveillance)



NEW SINO INDUSTRIAL LTD.  
NUMBER 30.2 ROAD,  
SHANGSHA 3 INDUSTRIAL PARK,  
CHANG AN TOWN, DONG GUAN CITY

Report on the submitted sample said to be 砂膜片.

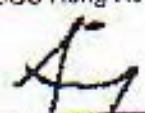
SGS Job No. : 1976899  
SGS Ref. No. : SZECO080204023RS  
Buyer : SONY  
Supplier / Manufacturer : SOURCE CHEMICAL TECH  
Sample Receiving Date : FEB 11 2006  
Testing Period : FEB 11 - 15 2006

Test Requested : 1) To determine the Cadmium content in the submitted sample.  
2) To determine the Lead content in the submitted sample.  
3) To determine the Mercury content in the submitted sample.  
4) To determine the Hexavalent Chromium content on the submitted sample.  
5) To determine PBBs (polybrominated biphenyls) and PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : 1-3) With reference to SGS in-house Method. The sample was digested by acid. Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
4) With reference to EPA Method 3060A & 7196A. The sample was alkaline digested by using EPA Method 3080A, and then analyzed by using Colorimetric method 7196A (by UV-Vis Spectrophotometer).  
5) With reference to EPA Method 3540C/ 3550C. Analysis was performed by GC/MS or LC/ MS.

Test Results : 1-5) Please refer to next page.

Signed for and on behalf of  
SGS Hong Kong Ltd

  
Ho Ka Ting, Family  
Laboratory Executive

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.

SIZE 134582



**Test Results**

Test Item	Silvery Metal	Detection Limit
1) Cadmium (Cd)	ND	2 ppm
2) Lead (Pb)	ND	2 ppm
3) Mercury (Hg)	ND	2 ppm
4) Hexavalent Chromium (Cr <sup>6+</sup> )	ND	2 ppm

(Results shown are of the total weight of samples)

Note : ppm = mg/kg  
 ND = Not Detected  
 Not detected is reported when the reading is less than detection limit value

5)

Flame Retardants	Silvery Metal	Detection Limit
<b>Polybrominated Biphenyls (PBBs)</b>	---	---
Monobromobiphenyl	ND	5 ppm
Dibromobiphenyl	ND	5 ppm
Tribromobiphenyl	ND	5 ppm
Tetrabromobiphenyl	ND	5 ppm
Pentabromobiphenyl	ND	5 ppm
Hexabromobiphenyl	ND	5 ppm
Heptabromobiphenyl	ND	5 ppm
Octabromobiphenyl	ND	5 ppm
Nonabromobiphenyl	ND	5 ppm
Decabromobiphenyl	ND	5 ppm
<b>Polybrominated Diphenylethers (PBDEs)</b>	---	---
Monobromodiphenyl ether	ND	5 ppm
Dibromodiphenyl ether	ND	5 ppm
Tribromodiphenyl ether	ND	5 ppm
Tetrabromodiphenyl ether	ND	5 ppm
Pentabromodiphenyl ether	ND	5 ppm
Hexabromodiphenyl ether	ND	5 ppm
Heptabromodiphenyl ether	ND	5 ppm
Octabromodiphenyl ether	ND	5 ppm
Nonabromodiphenyl ether	ND	5 ppm
Decabromodiphenyl ether	ND	5 ppm

Note : ppm = mg/kg  
 ND = Not Detected  
 Not detected is reported when the reading is less than detection limit value.

Remark : Test was conducted in SGS Hong Kong Limited

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.

**SZE 134583**



### PHOTO APPENDIX



SGS authenticates the photo on original report only

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.



SZE 114584

2/F, Gadar Building, Zhonggang Road, Shangmeilin, Shenzhen, China 518048 | (86-755)83114358 | (86-755)83162762 | [www.cn.sgs.com](http://www.cn.sgs.com)  
中国 - 深圳 - 上梅林中康路聚士达大厦2层 | 邮编: 518048 | (86-755)83114354 | (86-755)83162762 | [sgs.cn@sgs.com](mailto:sgs.cn@sgs.com)

To: 金贺品保/黄's  
SGS  
From: 博商

### Test Report

No: GZSCR0512106804/LP

Date: JAN 05, 2006

Page 1 of 4

BEST RESULT MAG & ELEC FTY

XIN-JIE INDUSTRIAL AREA, YI-HE TOWN, BO-LUO COUNTY, HUIZHOU CITY, GUANG DONG PROVINCE, CHINA

Report on the submitted sample said to be RUBBER MAGNETS

SGS Ref No : SZ051230285RS-2.2  
Buyer : SONY  
Supplier : BGRIMM  
Sample Receiving Date : DEC 27, 2005  
Testing Period : DEC 27, 2005 TO JAN 05, 2006

Test Requested : (1) As specified by client, to determine the Lead, Cadmium & Mercury content in the submitted sample.  
(2) As specified by client, to determine the Hexavalent Chromium Content in the submitted sample.  
(3) Determination of PBBs (Polybrominated Biphenyls), PBDEs (Polybrominated Diphenylethers) of the submitted sample.

Test Method : (1) Cadmium content : With reference to BS EN 1122:2001 Method B see flowchart (1)  
Lead content : Ashing after wet decomposition see flowchart (2)  
Mercury content - With reference to EPA 3052: 1996 / 7473: 1998 / other acid digestion  
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).  
(2) With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 10 - Alkaline Digestion Procedure).  
(3) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS.

Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.

Zhang Li Amy  
Sr Engineer

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the indications of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days after the Test Report shall not be reproduced except in full, without written approval of the Company.

SGS  
1885, 2015th St, PO Box 100, Fremont, CA 94539, USA  
Tel: (916) 208-2555 Fax: (916) 208-7511  
www.sgs.com  
中国广州·经济技术开发区科学城科韵路196号 邮编: 510663  
Tel: (86) 20 82155555 Fax: (86) 20 82151111  
e: [sgs@sgs.com](mailto:sgs@sgs.com)

Member of SGS Group (Société Générale de Surveillance)







## Test Report

No: GZSCR0512106804/LP

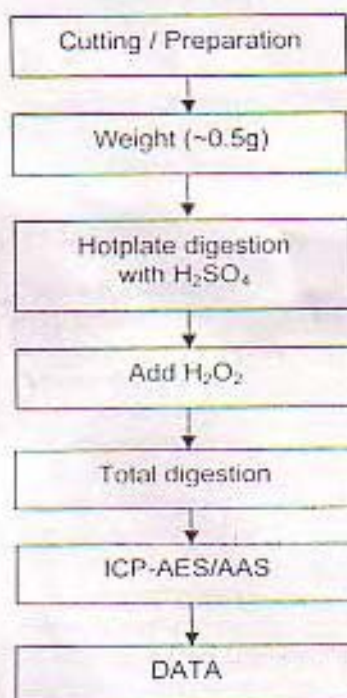
Date: JAN 05, 2006

Page 3 of 4

### ATTACHMENTS

(1)

Flow chart of digestion (Cadmium content) :



The samples were dissolved totally by pre-conditioning method according to above flow chart.

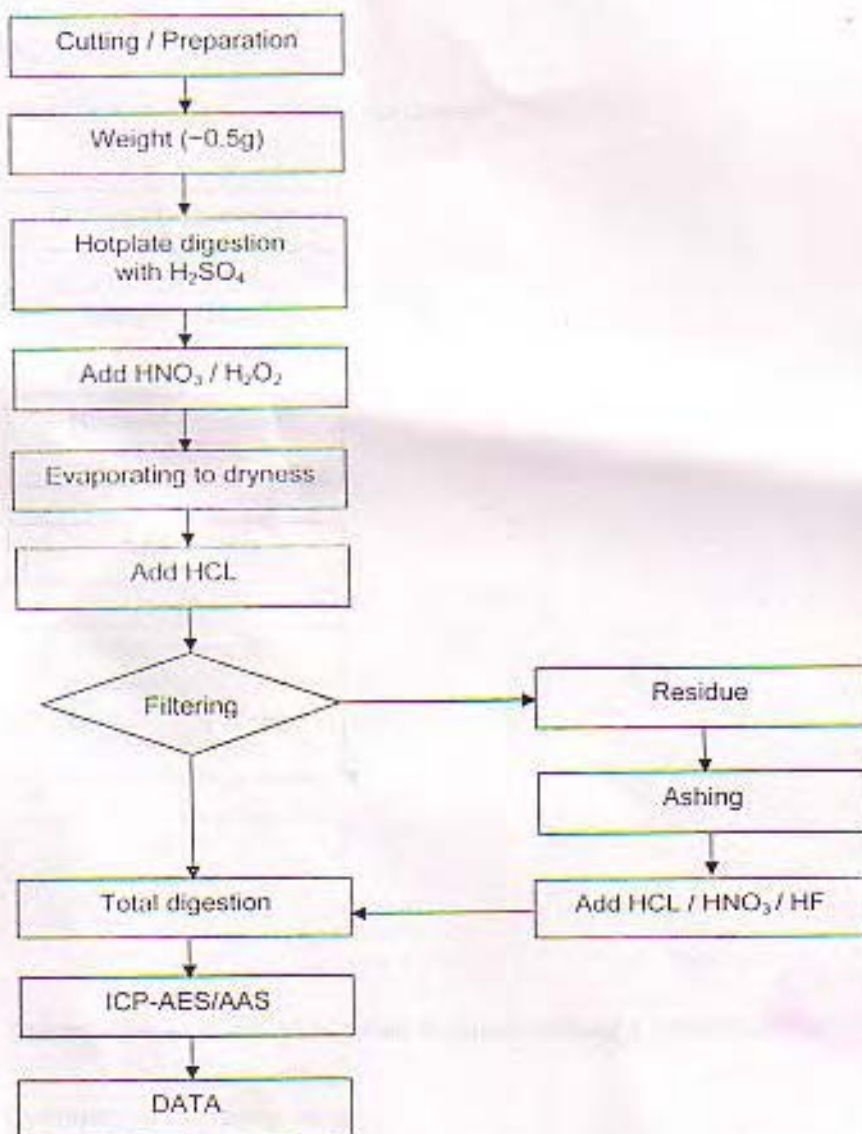
Operator : Sams Deng  
Leader : Joe Li

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.



(2)

Flow chart of digestion (wet decomposition and ashing) (Lead content)



The samples were dissolved totally by pre-conditioning method according to above flow chart

Operator : Vincent Li  
 Leader : Adams Yu

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional provisions defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.









## Test Report

No.: GZ0605079679/CHEM    Date: JUN 05, 2006    Page 2 of 2

### Results :

#### 1) 94/62/EC

Brown corrugated paper board

Lead [Pb]	37
Cadmium [Cd]	< 2
Mercury [Hg]	< 2
Hexavalent Chromium [Cr(VI)]	< 2
Total [Pb + Cd + Cr(VI) + Hg]	< 43
Total Limit	100

Note - < = Less than  
- The unit of results is mg per kg

#### 2) EN71 Part 3 : 1994 (including amendment A1:2000) - Migration of Certain Elements

Element	<u>Brown corrugated paper board</u>	<u>Lim]</u>
Soluble Lead (Pb)	14	30 mg/kg
Soluble Antimony (Sb)	< 2	50 mg/kg
Soluble Arsenic (As)	< 2	25 mg/kg
Soluble Barium (Ba)	34	1000 mg/kg
Soluble Cadmium (Cd)	< 5	75 mg/kg
Soluble Chromium (Cr)	< 5	60 mg/kg
Soluble Mercury (Hg)	< 2	60 mg/kg
Soluble Selenium (Se)	< 5	500 mg/kg

Note : - < = Less than

\*\*\* End of Report \*\*\*

This test report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this test report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days. This test report shall not be reproduced except in full, without written approval of the Company.

GZCM 583804





处理包材

# Test Report

No. GZ0605079860/CHEM Date: JUN 05 2006 Page 1 of 2

HOI FU PAPER PRODUCTS LTD  
SAN TUN HOUJIE, DONGGUAN CITY, S

Report on the submitted packaging samples said to be CARTON

SGS Ref No. : GZ060516432EC-3 2  
 Item / Model No : B3B  
 Sample Receiving Date : MAY 31, 2006  
 Testing Period : MAY 31, 2006 TO JUN 02, 2006

Test Requested : 1) To determine Lead, Cadmium, Mercury and Hexavalent Chromium Content in the submitted sample.

2) As specified by client, to test soluble Lead, soluble Arsenic, soluble Arsenic, Soluble Barium, soluble Cadmium, soluble Chromium, soluble Mercury, soluble Selenium content in the submitted sample.

Test Method : 1) Lead content - With reference to EPA method 3050B: 1996 / other acid digestion.  
 Calcium content - With reference to BS EN1122: 2001 method B / other acid digestion.  
 Mercury content - With reference to EPA 3052: 1996 / 7473: 1998 / other acid digestion.  
 Hexavalent Chromium content - With reference to EPA 2060A: 1996 & EPA 7166A: 1992.  
 Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES). Direct Mercury analyzer (DMA-80) Spectrophotometer.  
 2) With reference to EN71 part 3: 1991 (including amendment A1: 2000).  
 Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

Result : Please refer to next page

Conclusion : 1) The Total Cadmium, Mercury and Hexavalent Chromium Content in the submitted sample complies with the requirement of European Council Directive 94/62/EC - Article 11 that effective June 2001.

Signed for and on behalf of  
SGS CSTC Ltd.

Zhai Li Amy  
Sr. Engineer



## Test Report

No. GZG635075680/CHEM

Date: JUN 05, 2006

Page 2 of 2

### Results

1) 94/62/EC

Brown corrugated paper board

Lead (Pb)	< 2
Cadmium (Cd)	< 2
Mercury (Hg)	< 2
Hexavalent Chromium (Cr(VI))	< 2
Total (Pb + Cd + Cr(VI) + Hg)	< 27
Total Limit	100

Note: < = Less than

The unit of results is mg per kg

2) EN71 Part 3: 1994 (including amendment A1: 2000) - Migration of Certain Elements

Element	<u>Brown corrugated paper board</u>	Limit
Soluble Lead (Pb)	< 5	90 mg/kg
Soluble Antimony (Sb)	< 5	60 mg/kg
Soluble Arsenic (As)	< 4	25 mg/kg
Soluble Barium (Ba)	31	1000 mg/kg
Soluble Cadmium (Cd)	< 5	75 mg/kg
Soluble Chromium (Cr)	< 5	60 mg/kg
Soluble Mercury (Hg)	< 2	60 mg/kg
Soluble Selenium (Se)	< 5	500 mg/kg

Note: < = Less than

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies set forth therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days after the date of this Report shall not be reproduced except in full, without written approval of the Company.

GZCM 583902





# Test Report

No.: GZ0605079681/CHEM Date: JUN 05, 2006 Page 2 of 2

Results :

94/62/EC

Brown corrugated paper board w/ red printing

Lead (Pb)	19
Cadmium (Cd)	< 2
Mercury (Hg)	< 2
Hexavalent Chromium (Cr(VI))	< 2
-----	
∑ (Pb + Cd + Cr(VI) + Hg)	< 25
Total Limit	100

Note: - < = Less than  
- The unit of results is mg per kg

EN71 Part 3: 1994 (including amendment A1:2000) - Migration of Certain Elements

Element	Brown corrugated paper board w/ red printing	Limit
Soluble Lead (Pb)	< 5	90 mg/kg
Soluble Antimony (Sb)	< 2	60 mg/kg
Soluble Arsenic (As)	< 2	25 mg/kg
Soluble Barium (Ba)	20	1000 mg/kg
Soluble Cadmium (Cd)	< 5	75 mg/kg
Soluble Chromium (Cr)	< 5	60 mg/kg
Soluble Mercury (Hg)	< 2	60 mg/kg
Soluble Selenium (Se)	< 5	500 mg/kg

Note: - < = Less than

\*\*\* End of Report \*\*\*

This report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.zgs.com](http://www.zgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies contained therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.

GZCM 583900



## Test Report

No. SH6023234-1/CHEM

Date: Mar. 20, 2006

Page 1 of 2

NANJING XINXING ELECTRONICAL STUFF LIMITED COMPANY  
NO.18 YINGJIANG ROAD, POKOU, NANJING JIANGSU, CHINA

THIS REPORT IS TO SUPERSEDE TEST REPORT NO. SH6023234/CHEM, DATE: Mar.10, 2006.

Report on the submitted sample said to be **TINNED COPPER CLAD WIRE FOR ELECTRONIC COMPONENTS.**

SGS Ref No. : SHEC0060309194-1  
Model : □0.2×0.2-1.2×1.2mm  
Main substance : Fe, Cu, Sn  
Supplier : NANJING XINXING ELECTRICAL STUFF LIMITED COMPANY

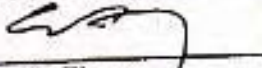
Sample Receiving Date : Mar. 07, 2006  
Testing Period : Mar. 07 - 10, 2006

Test Requested : 1) To determine the Cadmium Content in the submitted sample.  
2) To determine the Lead Content in the submitted sample.  
3) To determine the Mercury Content in the submitted sample.  
4) To determine the Hexavalent Chromium Content on the submitted sample.  
5) To determine the PBBs(Polybrominated biphenyls) PBDEs(PBDES) (Polybrominated biphenyl ethers) Content of the submitted sample.

Test method : 1) With reference to BS EN 1122:2001, Method B or other acid digestion Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
2) With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
3) With reference to US EPA 3052 or other acid digestion, Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.  
4) With reference to ISO 9613 : 2000(c). Analysis was performed by UV-VIS Spectrometric method.  
5) With reference to USEPA 8081A/8270D/3540C/3550C, Analysis was performed by GC-MS.

Test Results : Please refer to next page

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

  
Ella Zhang  
Sr. Section Head



This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 7 days. This Test Report shall not be reproduced except in full, without written approval of the Company.



10/F, 3rd Building, No. 669, Yishan Road, Shanghai, China 200233  
中国·上海·崑山路889号3号楼10层 邮编:200233

1 (86-21) 61402666 \* 2720 1 (86-21) 614500314 [www.cn.sgs.com](http://www.cn.sgs.com)  
1 (86-21) 61402693 1 (86-21) 614500314 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

SHCHEM 5112868

Member of SGS Group (Société Générale de Surveillance)



## Test Report

No. SH6023234-1/CHEM

Date: Mar. 20, 2006

Page 2 of 2

### Test Results

No.	Item	Unit	DL	A
1	Cadmium (Cd)	mg/kg	2	N.D.
2	Lead (Pb)	mg/kg	2	N.D.
3	Mercury (Hg)	mg/kg	2	N.D.
4	Hexavalent Chromium (Cr VI)	µg/cm <sup>2</sup>	0.02	N.D.
		mg/kg*	2	N.D.
5	Polybrominated biphenyls (PBBs)	---	---	---
	Monobromobiphenyl	mg/kg	5	N.D.
	Dibromobiphenyl	mg/kg	5	N.D.
	Tribromobiphenyl	mg/kg	5	N.D.
	Tetrabromobiphenyl	mg/kg	5	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.
	Hexabromobiphenyl	mg/kg	5	N.D.
	Heptabromobiphenyl	mg/kg	5	N.D.
	Octabromobiphenyl	mg/kg	5	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D.
	Decabromobiphenyl	mg/kg	5	N.D.
	Polybrominated biphenyl ethers (PBBEs(PBDEs))	---	---	---
	Monobromobiphenyl ether	mg/kg	5	N.D.
	Dibromobiphenyl ether	mg/kg	5	N.D.
	Tribromobiphenyl ether	mg/kg	5	N.D.
	Tetrabromobiphenyl ether	mg/kg	5	N.D.
	Pentabromobiphenyl ether	mg/kg	5	N.D.
	Hexabromobiphenyl ether	mg/kg	5	N.D.
	Heptabromobiphenyl ether	mg/kg	5	N.D.
Octabromobiphenyl ether	mg/kg	5	N.D.	
Nonabromobiphenyl ether	mg/kg	5	N.D.	
Decabromobiphenyl ether	mg/kg	5	N.D.	

### Sample Appearance Description (Photo see appendix):

A. Silvery metal wire

Note : 1mg/kg=1ppm=0.0001%

DL= Detection Limit

N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

\*Result shown is of the total weight of sample, and only for reference.

\*\*\* End of Report \*\*\*



This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.



SHCHEM 562869

10/F, 3rd Building, No 889, Yishan Road, Shanghai, China 200233 | (86-21) 61402666 \* 2720 | (86-21) 614500314 | [www.cn.sgs.com](http://www.cn.sgs.com)  
 中国·上海·崑山路889号3号楼10层 | 邮编:200233 | (86-21) 61402663 | (86-21) 614500314 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)





## Test Report

No.: GZ0605089089/CHEM

Date: SEP 01,2006

Page 1 of 2

SHEN ZHEN YONG AN FLUX CO.,LTD.

5<sup>TH</sup> BLOCK, JIATIANGANGHUANGTIAN INDUSTRIAL DISTRICT, XIXIANG TOWN, BAOAN AREA, SHENZHEN

Report on the submitted sample said to be LEAD FREE SOLDER PASTE Sn96.5Ag3.0Cu0.5

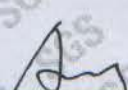
SGS Ref No. : SZ060526342RS-1.1  
Model No. : LF-RMAA8F2  
Sample Receiving Date : AUG 28, 2006  
Testing Period : AUG 28, 2006 TO SEP 01, 2006

Test Requested : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.  
(2) Determination of PBBs (Polybrominated Biphenyls), PBDEs (Polybrominated Diphenylethers) of the submitted sample.

Test Method : (1) Lead content - With reference to EPA method 3050B: 1996 / other acid digestion.  
Cadmium content - With reference to BS EN1122 : 2001 method B / other acid digestion.  
Mercury content - With reference to EPA 3052 : 1996 / other acid digestion.  
Hexavalent Chromium content - With reference to IEC111/24/CD\_9.7.2& EPA 7196A : 1992.  
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.  
(2) With reference to EPA 3540C. Analysis was performed by GC/MS.

Results : Please refer to the next page.

Signed for and on behalf of  
SGS-CSTC Ltd.

  
Zhang Li, Amy  
Sr. Engineer

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

**GZCM 586081**



## Test Report

No.: GZ0605089089/CHEM

Date: SEP 01, 2006

Page 2 of 2

Results :

(1)

Item	Unit	MDL	Gray paste
Lead Content (Pb)	ppm	2	96
Cadmium Content (Cd)	ppm	2	4
Mercury Content (Hg)	ppm	2	N.D.
Hexavalent Chromium (Cr VI)	ppm	2	N.D.

Note : - N.D. = Not Detected (<MDL)  
 -MDL= Method Detection Limit  
 -ppm = mg/kg

(2)

	Gray paste
<b>Flame Retardants</b>	-----
<b>Polybrominated Biphenyls (PBBS)</b>	
Monobromobiphenyl	N.D.
Dibromobiphenyl	N.D.
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	N.D.
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D.
Heptabromobiphenyl	N.D.
Octabromobiphenyl	N.D.
Nonebromobiphenyl	N.D.
Decabromobiphenyl	N.D.
<b>Polybrominated Diphenylethers (PBDEs)</b>	
Monobromodiphenyl ether	N.D.
Dibromodiphenyl ether	N.D.
Tribromodiphenyl ether	N.D.
Tetrabromodiphenyl ether	N.D.
Pentabromodiphenyl ether	N.D.
Hexabromodiphenyl ether	N.D.
Heptabromodiphenyl ether	N.D.
Octabromodiphenyl ether	N.D.
Nonebromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.D.

Note : -N.D. = Not Detected (< 5 ppm)  
 - ppm = mg/kg

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.



GZCM 586080



## Test Report

No.: GZ0602012510/CHEM

Date: FEB 16, 2006

Page 1 of 2

SHEN ZHEN YONG AN FLUX CO., LTD  
5<sup>TH</sup> FLOOR, JIATANGANGHUANGTIAN INDUSTRIAL DISTRICT, XIXIANGTOWN, BAOAN AREA, SHENZHEN

Report on the submitted sample said to be GREEN NO-CLEAN FLUX F-960B

SGS Ref.No. : SZ060204092RC-9.6

Model No. : FLUX

Sample Receiving Date : FEB 10, 2006

Testing Period : FEB 10, 2006 TO FEB 16, 2006

Test Requested : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.  
(2) Determination of PBBs (Polybrominated Biphenyls), PBDEs (Polybrominated Diphenylethers) of the submitted sample.

Test Method : (1) Lead content - With reference to EPA method 3050B / 1996 / other acid digestion  
Cadmium content - With reference to BS-EN1122:2001 method B / other acid digestion  
Mercury content - With reference to EPA 3052 / 1996 / other acid digestion  
Hexavalent Chromium content - With reference to EPA 3050A / 1996 & EPA 7196A / 1992  
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.  
(2) With reference to EPA-3540C / 3550C. Analysis was performed by GC/MS.

Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSIC Ltd.

Zhang Li, Amy  
Sr. Engineer

This Test Report is issued by the Company subject to its General Conditions of Service printed hereafter or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and dispute resolution provided therein. The results shown in this Test Report refer only to the sample(s) tested, unless otherwise stated and such results are valid for only 30 days from the date of this Report. This Report shall not be reproduced, except in full, without written approval of the Company.



SZ06 915007



## Test Report

No.: GZ0602012510/CHEM

Date: FEB 16, 2005

Page 2 of 2

### Results:

(1)

Item	Unit	MDL	Lt-yellow liquid
Lead Content (Pb)	ppm	2	N.D.
Cadmium Content (Cd)	ppm	2	N.D.
Mercury Content (Hg)	ppm	2	N.D.
Hexavalent Chromium (Cr VI)	ppm	2	N.D.

Note: - N.D. = Not Detected (< MDL)  
 - MDL = Method Detection Limit  
 - ppm = mg/kg

(2)

	Lt-yellow liquid
<b>Flame Retardants</b>	
<b>Polybrominated Biphenyls (PBBs)</b>	
Monobromobiphenyl	N.D.
Dibromobiphenyl	N.D.
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	N.D.
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D.
Heptabromobiphenyl	N.D.
Octabromobiphenyl	N.D.
Nonabromodiphenyl	N.D.
Decabromodiphenyl	N.D.
<b>Polybrominated Diphenylethers (PBDEs)</b>	
Monobromodiphenyl ether	N.D.
Dibromodiphenyl ether	N.D.
Tribromodiphenyl ether	N.D.
Tetrabromodiphenyl ether	N.D.
Pentabromodiphenyl ether	N.D.
Hexabromodiphenyl ether	N.D.
Heptabromodiphenyl ether	N.D.
Octabromodiphenyl ether	N.D.
Nonabromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.D.

Note: - N.D. = Not Detected (< 5 ppm)  
 - ppm = mg/kg

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such samples are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.





10. 吳'S (842)



### Test Report

No.: SZTYR060618791/LP

Date: JUN 14, 2006

Page 1 of 1

DONG GONG METAL FITTINGS (SHEN ZHEN) CO., LTD.  
BEI BIAN BEI INDUSTRIAL AREA, SONG GANG VILLAGE,  
SONG GANG TOWN, BAO AN DISTRICT, SHENZHEN, CHINA

Report on the submitted samples said to be 轴心

SGS Ref No. : 060626819RS-3.2  
Item No. : DG-2006 (DT-SUS420F)  
Sample Receiving Date : JUN 06, 2006  
Testing Period : JUN 06, 2006 TO JUN 14, 2006

- Test Requested :
- 1) Determination of Lead content in the submitted samples.
  - 2) Determination of Cadmium content in the submitted samples.
  - 3) Determination of Mercury content in the submitted samples.
  - 4) Determination of Hexavalent Chromium content in the submitted samples.

- Test Method :
- 1) With reference to EPA 3050B:1996 / Other acid digestion. Analysis was performed by Atomic Absorption Spectrometer (AAS).
  - 2) With reference to EN 1122:2001 / Other acid digestion. Analysis was performed by Atomic Absorption Spectrometer (AAS).
  - 3) With reference to EPA Method 3052: 1996 / other acid digestion. Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).
  - 4) Requested by applicant, with reference to IEC 111-9.7.2.

### Test Results

Element	Silvery color metal shaft	Detection Limit
1) Lead (Pb)	48	2 ppm
2) Cadmium (Cd)	N.D.	2 ppm
3) Mercury (Hg)	N.D.	2 ppm
4) Hexavalent Chromium (Cr <sup>6+</sup> )	Negative	0.02mg/kg with 50cm <sup>2</sup>

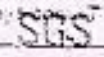
- Note :
- N.D. = Not detected (lower than detection limit)
  - ppm = mg/kg
  - Negative means the concentration of Hexavalent Chromium extracted from 50cm<sup>2</sup> sample is less than the detection limit.
  - When using method of IEC 111-9.7.2, the detection limit of Cr(VI) in solution is 0.02 mg/kg with 50cm<sup>2</sup> sample surface area used.
  - Photo Appendix is included.

\*\*\* End of Report \*\*\*

Signed for and on behalf of  
SGS-CSTC Ltd.

LUI Tat Wah, Wallace  
Sr. Lab Manager

This Test Report is issued by the Company subject to General Conditions of Service printed overleaf or attached. Said Conditions are also available on request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The legal jurisdiction of the Test Report refers only to the samples as tested unless otherwise stated and all of samples are retained by the Company. This Test Report shall be valid for 12 months without written acknowledgment of the Company.





## Test Report

No.: GZ0808121421/CHEM

Date: AUG 14, 2006

Page 1 of 4

DONGGUAN JIAXIN MOULD & PLASTIC CO., LTD  
GEKENG YANGJIANG INDUSTRIAL ZONE, HENGLI TOWN, DONGGUAN CITY

Report on the submitted sample said to be 基架扇叶绝缘片  
Client Reference: 4080、4830

SGS Ref No. : GZ10036511EC-2.1  
Buyer : SONY  
Sample Receiving Date : AUG 07, 2006  
Testing Period : AUG 07, 2006 TO AUG 14, 2006

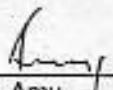
Test Requested : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.  
(2) Determination of PBBs (Polybrominated Biphenyls), PBDEs (Polybrominated Diphenylethers) of the submitted sample.

Test method : (1) Cadmium content : With reference to BS EN 1122:2001 Method B see flowchart (1).  
Lead content : Ashing after wet decomposition see flowchart (2).  
Mercury content - With reference to EPA 3052: 1996 & EPA 7473: 1998.  
Hexavalent Chromium content - with reference to EPA 3060A: 1996 & EPA 7196A: 1992.  
Analysis was performed by Atomic Absorption Spectrometer & Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) & Direct Mercury analyzer & UV-VIS Spectrophotometer.  
(2) With reference to EPA 3540C & EPA 3550C. Analysis was performed by GC-MS.

Results : Please refer to next page.

Conclusion : When tested as specified, the results shown on the report do not exceed the limit in commission decision of 18 Aug 2005 amending Directive 2002/95/EC (RoHS) notified under document 2005/618/EC.

Signed for and on behalf of  
SGS-CSTC Ltd.

  
Zhang Li, Amy  
Sr. Engineer

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

GZ0808121421

## Test Report

No.: GZ0608121421/CHEM

Date: AUG 14, 2006

Page 2 of 4

Results :

(1)

Item	Unit	MDL	Black plastic	Limit
Lead Content (Pb)	mg/kg	2	10	< 1000mg/kg
Cadmium Content (Cd)	mg/kg	2	N.D.	< 100mg/kg
Mercury Content (Hg)	mg/kg	2	N.D.	< 1000mg/kg
Hexavalent Chromium Content (Cr VI)	mg/kg	2	N.D.	< 1000mg/kg

Note : - N.D. = Not Detected (< MDL)  
 - MDL = Method Detection Limit  
 - mg/kg = ppm

(2)

Item	Unit	MDL	Black plastic	Limit
<b>Flame Retardants</b>				
<b>Polybrominated Biphenyls (PBBs)</b>				< 1000mg/kg
Monobromobiphenyl	mg/kg	5	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	
<b>Polybrominated Diphenylethers (PBDEs) (Mon-Non)</b>				< 1000mg/kg
Monobromodiphenyl ether	mg/kg	5	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	
Decabromodiphenyl ether <sup>Δ</sup>	mg/kg	5	N.D.	

Note : - N.D. = Not Detected (< MDL)  
 - MDL = Method Detection Limit  
 - mg/kg = ppm  
 - <sup>Δ</sup> : Decabromodiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under 2005/717/EC.

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.

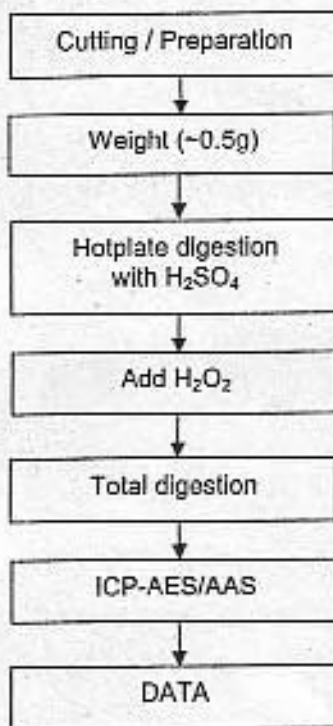




ATTACHMENTS

(1)

Flow chart of digestion (Cadmium content) :



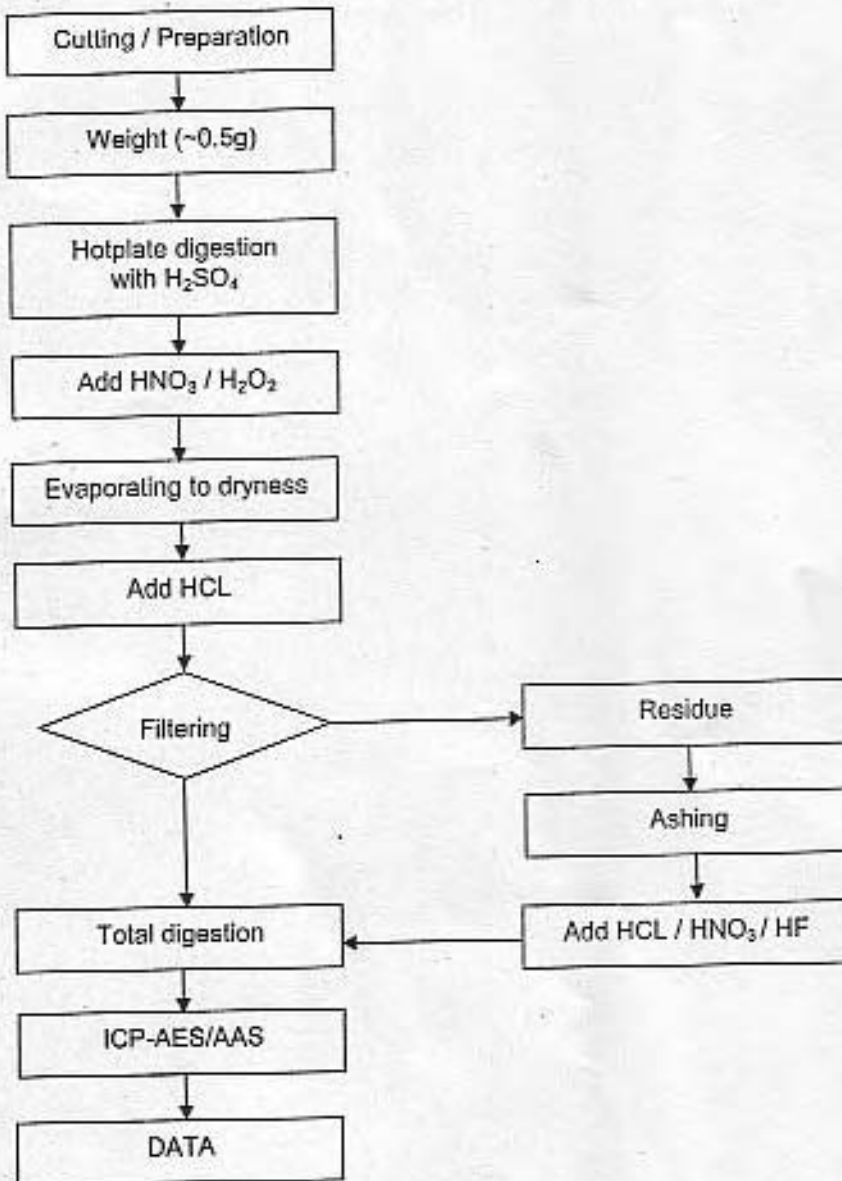
The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : David Shen  
Leader : Julie Zhong

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days. This Test Report shall not be reproduced except in full, without written approval of the Company.



(2)  
Flow chart of digestion (wet decomposition and ashing) (Lead content):



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Vincent Li  
Leader : Adams Yu

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.







## Test Report

No.: GZSCR051077213/LP

Date: OCT 21, 2005

Page 1 of 2

DONG GUAN YUKKWONG METAL OXIDIZATION PRODUCTS CO., LTD.  
SHIYONG DISTRICT, HENLI, DONGGUAN, GUANGDONG, CHINA

Report on the submitted sample said to be FR-4 PB8 AC PCB

SGS Ref No. : GZ051013831EC  
Buyer : AHOKU  
Supplier : YUKKWONG  
Sample Receiving Date : OCT 14, 2005  
Testing Period : OCT 14, 2005 TO OCT 21, 2005

Test Requested : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.  
(2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : (1) Lead content - With reference to EPA method 3050B: 1996 / other acid digestion.  
Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion.  
Mercury content - With reference to EPA 3052: 1996 / 7473: 1998 / other acid digestion.  
Hexavalent Chromium content - With reference to EPA 3060A : 1996 & EPA 7196A : 1992.  
Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.  
(2) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS.

Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.

Zhang Li, Amy  
Sr. Engineer



## Test Report

No.: GZSCR051077213/LP

Date: OCT 21, 2005

Page 2 of 2

Results :

(1)	"PCB" (mixed)
Lead content (Pb)(ppm)	22
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.

Note : - N.D. = Not Detected (< 2 ppm)  
 - ppm = µg/kg

(2)

Flame Retardants	"PCB" (mixed)
<b>Polybrominated Biphenyls (PBBs)</b>	
Monobromobiphenyl	N.D.
Dibromobiphenyl	N.D.
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	N.D.
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D.
Heptabromobiphenyl	N.D.
Octabromobiphenyl	N.D.
Nonabromodiphenyl	N.D.
Decabromodiphenyl	N.D.
<b>Polybrominated Diphenylethers (PBDEs)</b>	
Monobromodiphenyl ether	N.D.
Dibromodiphenyl ether	N.D.
Tribromodiphenyl ether	N.D.
Tetrabromodiphenyl ether	N.D.
Pentabromodiphenyl ether	N.D.
Hexabromodiphenyl ether	N.D.
Heptabromodiphenyl ether	N.D.
Octabromodiphenyl ether	N.D.
Nonabromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.D.

Note : - N.D. = Not Detected (< 5 ppm)  
 - ppm = mg/kg

Remark : The sample was analyzed on behalf of the applicant as mixing whole / part sample in one testing. The result in report means average of whole sample. The result may deviate from the real data represented by homogeneous material as requested by RoHS.

\*\*\* End of Report \*\*\*



## Test Report

No. SH6046093/CHEM

Date: Apr. 24, 2006

Page 1 of 5

SHANGHAI NICERA SENSOR CO.,LTD  
NO.888. WEN SHUI EAST ROAD, SHANGHAI

Report on the submitted sample said to be HALL ELEMENTS (PACKAGE).


SGS Ref No. : SHEC0060420269-1  
Model : PB FREE TYPE

Sample Receiving Date : Apr. 19, 2006  
Testing Period : Apr. 19 – 24, 2006

Test Requested : 1) To determine the Cadmium, Lead, Mercury, Hexavalent Chromium Content of the submitted sample.  
2) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs) (Polybrominated biphenyl ethers) Content of the submitted sample.

Test method/Test Results: Please refer to next page

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

  
Ella Zhang  
Sr. Section Head

COPY

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

## Test Report

No. SH6046093/CHEM

Date: Apr. 24, 2006

Page 2 of 5

Test method

: 1) Cadmium (Cd)

With reference to EN 1122:2001, Method B or other acid digestion for sample, see flowchart (1) for sample.

Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.

Lead (Pb)

With reference to EPA Method 3050B/ 3051/ 3052. or other acid digestion ,see flowchart (2) for sample.

Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.

Mercury (Hg)

With reference to US EPA 3052 or other acid digestion, Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.

Hexavalent Chromium (Cr<sup>6+</sup>)

With reference to EPA Method 3060A & 7196A.

The samples were alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A.

2) With reference to USEPA 8081A/8270D/3540C/3550C, Analysis was performed by GC-MS.

Test Results

1) Cadmium, Lead, Mercury, Hexavalent Chromium Content

Item	Unit	DL	No.1*
Cadmium (Cd)	mg/kg	2	N.D.
Lead (Pb)	mg/kg	2	N.D.
Mercury (Hg)	mg/kg	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	2	N.D.

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.



2) PBBs(Polybrominated biphenyls) PBBEs(PBDEs) (Polybrominated biphenyl ethers) Content

Item	Unit	DL	No. 1*
Polybrominated biphenyls (PBBs)	mg/kg	---	---
PBBs(Monobromobiphenyl)	mg/kg	5	N.D.
PBBs(Dibromobiphenyl)	mg/kg	5	N.D.
PBBs(Tribromobiphenyl)	mg/kg	5	N.D.
PBBs(Tetrabromobiphenyl)	mg/kg	5	N.D.
PBBs(Pentabromobiphenyl)	mg/kg	5	N.D.
PBBs(Hexabromobiphenyl)	mg/kg	5	N.D.
PBBs(Heptabromobiphenyl)	mg/kg	5	N.D.
PBBs(Octabromobiphenyl)	mg/kg	5	N.D.
PBBs(Nonabromobiphenyl)	mg/kg	5	N.D.
PBBs(Decabromobiphenyl)	mg/kg	5	N.D.
Polybrominated biphenyl ethers ( PBBEs(PBDEs) )	---	---	---
PBBEs(PBDEs)(Monobromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Dibromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Tribromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Tetrabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Pentabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Hexabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Heptabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Octabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Nonabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Decabromobiphenyl ether)	mg/kg	5	N.D.

Sample Appearance Description(Photo see appendix):

No.1. Black solid part(mix all)

Note : 1mg/kg=1ppm=0.0001%

DL= Detection Limit

N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

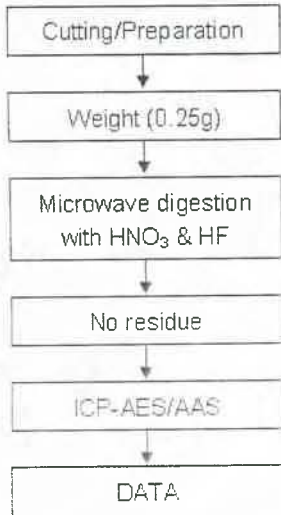
\*The sample(s) was analyzed on behalf of the applicant as mixing whole/part sample in one testing. The result(s) in report means average of whole sample. The result(s) will be different obviously if the sample(s) was tested as requirement of RoHS, and result(s) may be higher than that of report. The applicant will take the responsibility of all discrepancy and risk.

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitation of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

### ATTACHMENTS

#### Flow chart 1

#### Flow chart of digestion for Cd



The samples were dissolved totally by pre-conditioning method according to above flow chart.

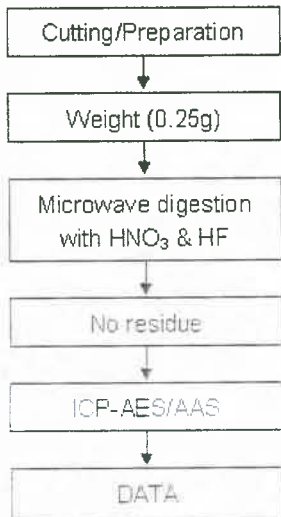
Tested by : Andy Lu  
Checked by : Terry Wang

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitation of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.



### Flow chart 2

#### Flow chart of digestion for Pb



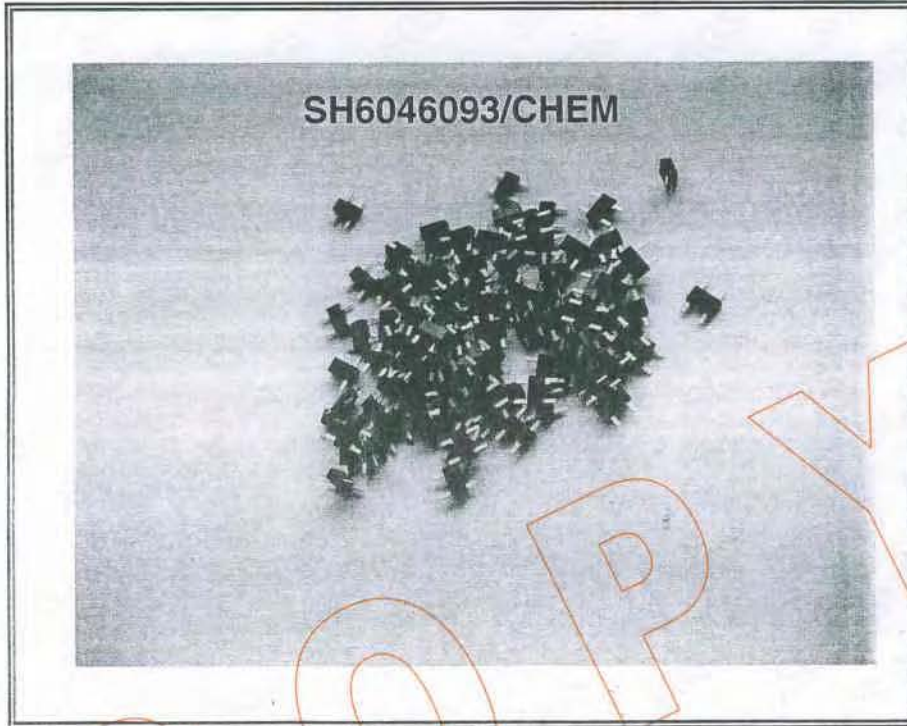
The samples were dissolved totally by pre-conditioning method according to above flow chart.

Tested by : Jeff Zhang  
Checked by : Terry Wang

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

## PHOTO APPENDIX



SGS authenticate the photo on original report only.

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

Ella Zhang  
Sr. Section Head

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.



## Test Report

No. SH6046094/CHEM

Date: Apr. 24, 2006

Page 1 of 2

SHANGHAI NICERA SENSOR CO.,LTD  
NO.888. WEN SHUI EAST ROAD, SHANGHAI

Report on the submitted sample said to be HALL ELEMENTS (PIN).

SGS Ref No. : SHEC0060420269-2  
Model : Pb FREE TYPE


Sample Receiving Date : Apr. 19, 2006  
Testing Period : Apr. 19 – 24, 2006

Test Requested : 1) To determine the Cadmium Content in the submitted sample.  
2) To determine the Lead Content in the submitted sample.  
3) To determine the Mercury Content in the submitted sample.  
4) To determine the Hexavalent Chromium Content on the submitted sample.

Test Method : 1) With reference to BS EN 1122:2001, Method B, or other acid digestion.  
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
2) With reference to EPA Method 3050B, 3051/ 3052, or other acid digestion  
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
3) With reference to US EPA 3052 or other acid digestion, Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.  
4) With reference to EPA Method 3060A & 7196A.  
The samples were alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A.

Test Results : Please refer to next page

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

  
Ella Zhang  
Sr. Section Head

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

## Test Report

No. SH6046094/CHEM

Date: Apr. 24, 2006

Page 2 of 2

### Test Results:

No.	Item	Unit	DL	A
1	Cadmium (Cd)	mg/kg	2	N.D.
2	Lead (Pb)	mg/kg	2	15
3	Mercury (Hg)	mg/kg	2	N.D.
4	Hexavalent Chromium (Cr VI)*	mg/kg	2	N.D.

### Sample Appearance Description(Photo see appendix):

A. Silvery metal

Note : 1mg/kg=1ppm=0.0001%

DL= Detection Limit

N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

\* As requested by client, EPA 3060A/7196A were used for determination of the sample

\*\*\* End of Report \*\*\*

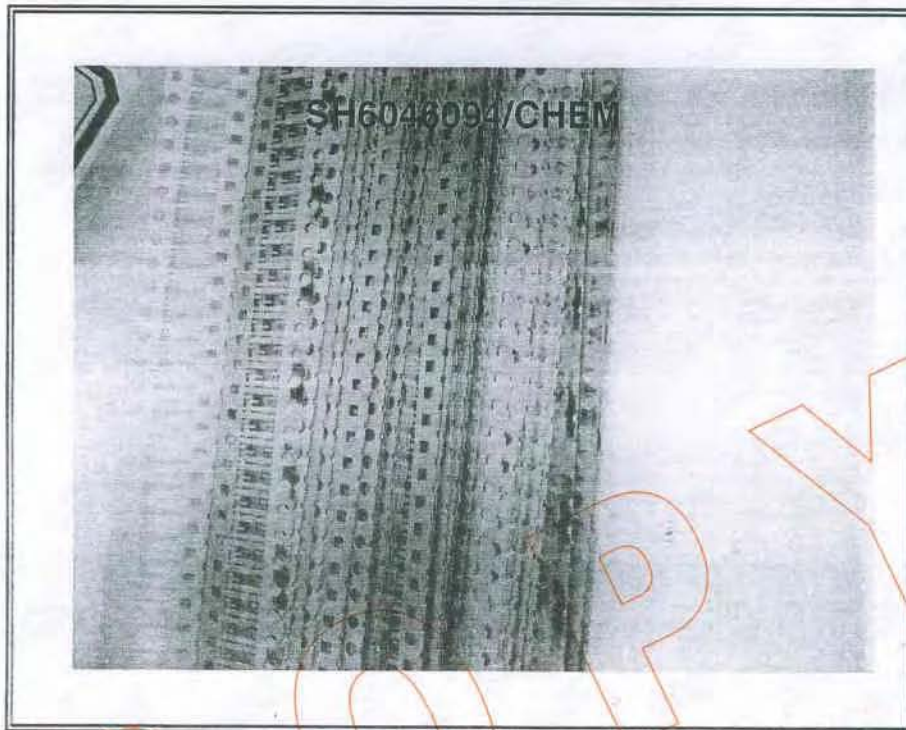
COPY

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

**SHCHEM 740548**

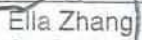


## PHOTO APPENDIX



SGS authenticate the photo on original report only

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

  
Ella Zhang  
Sr. Section Head

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

# 南海新合铝业有限公司铝棒化验报告单

生产日期	2005.6.6	牌号	纯铝棒					化验日期	2005.6.6							
炉次编号		化学成分 %										低倍检验				
试样编号	规格	Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	晶粒度	气孔	夹杂	疏松	裂纹	表面质量	
2109	Φ90 x 320	0.10	0.03	0.15	≤0.04	≤0.03	≤0.03	≤0.04	≤0.03	1级	合格	合格	合格	合格	合格	
化验室意见:										主管部门意见:						
符合要求, 可以使用										 						
化验员: 王新祥																



Program:AL-6000  
 Comment:Al-alloys global  
 Single spar:(s)

Elements:Concentration

Sample No:6063--BG04201(153mm)  
 Sample Id:MADE IN BAHRAIN

Quality:6063-T5

NO	Si %	Fe %	Cu %	Mn %	Mg %
1	0.4053	0.1663	0.0163	0.0080	0.541
2	0.4128	0.1632	0.0163	0.0078	0.569
3	0.4107	0.1649	0.0155	0.0078	0.570
4	0.4106	0.1613	0.0156	0.0079	0.568
5	0.4117	0.1620	0.0153	0.0078	0.572
NO	Zn %	Ni %	Cr %	Pb %	Sn %
1	<0.0100	0.0051	0.0032	0.0018	<0.0010
2	<0.0100	0.0051	0.0031	0.0017	<0.00100
3	<0.0100	0.0052	0.0031	0.0016	<0.0100
4	<0.0100	0.0050	0.0031	0.0015	<0.0010
5	<0.0100	0.0050	0.0031	0.0016	<0.0010
NO	Ti %	Bi %	Zr %	Al %	
1	0.0164	<0.0010	0.0010	98.8	
2	0.0154	<0.0010	0.0010	98.8	
3	0.0150	<0.0010	0.0010	98.8	
4	0.0155	<0.0010	0.0010	98.8	
5	0.0150	0.0010	0.0010	98.8	

Program:AL 6000  
 Comment:Al alloys global  
 Average (n=5)  
 Sample No:6063--BG04208(153mm)  
 Sample No:MADE IN BAHRAIN



Si %	Fe %	Cu %	Mn %	Mg %
0.2000				0.4500
0.410	0.1635	0.0154	0.0079	0.569
0.600	0.3500	0.1000	0.1000	0.900
Zn %	Ni %	Cr %	Pb %	Sn %
0.0100	0.0051	0.0031	0.0016	<0.0010
0.1000		0.1000		
Ti %	Bi %	Zr %	Al %	
0.0155	<0.0010	<0.0010	98.8	
0.1000				

审核:袁顺祥

测试人:王华桥

## 测试报告

编号: GZSCR050531917/LP

日期: 2005年5月31日 页码 1 of 2

东莞泓璋电子科技有限公司  
东莞市黄江镇黄京坑村

本报告是基于所提供的名称为“散热器”的样品所做的测试

SGS 参考编号 : SZ050508915EC  
收板日期 : 2005年5月24日  
测试日期 : 2005年5月24日至2005年5月30日

测试要求 : (1)委托样品中的铅, 镉, 汞和六价铬含量。  
(2)委托样品中的多溴联苯, 多溴联苯醚的含量。

测试方法 : (1)铅含量 - SGS 内部方法, 参照 EPA 方法 3050B:1996。  
镉含量 - SGS 内部方法, 参照 BS EN1122:2001 方法 B。  
汞含量 - SGS 内部方法, 参照 EPA 方法 3052:1996。  
六价铬含量 - 参照 EPA 方法 3060A:1996 和 7196A:1992。  
分析仪器为电感耦合等离子体发射光谱仪/紫外分光光度计。  
(2)SGS 内部方法, 分析仪器为 GC/MS。

测试结果: 请参见下一页

Signed for and on behalf of  
SGS-CSTC Ltd.



Xie Yongbiao, Sam  
Lab Manager

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

GZCM 262048



## 测试报告

编号: GZSCR050531917/LP

日期: 2005年5月31日 页码 2 of 2

测试结果:

(1)

	No. 1	No. 2	No. 3
铅含量 (ppm)	15	18	5
镉含量	N.D.	N.D.	N.D.
汞含量	N.D.	N.D.	N.D.
六价铬含量	N.D.	N.D.	N.D.

说明: - N.D. = 没有检测到 (< 2 ppm)

- ppm = 毫克/千克

(2)

阻燃剂	No. 1	No. 2	No. 3	检测限
多溴联苯	N.D.	N.D.	N.D.	5 ppm
单溴联苯	N.D.	N.D.	N.D.	5 ppm
二溴联苯	N.D.	N.D.	N.D.	5 ppm
三溴联苯	N.D.	N.D.	N.D.	5 ppm
四溴联苯	N.D.	N.D.	N.D.	5 ppm
五溴联苯	N.D.	N.D.	N.D.	5 ppm
六溴联苯	N.D.	N.D.	N.D.	5 ppm
七溴联苯	N.D.	N.D.	N.D.	5 ppm
八溴联苯	N.D.	N.D.	N.D.	5 ppm
九溴联苯	N.D.	N.D.	N.D.	5 ppm
十溴联苯	N.D.	N.D.	N.D.	5 ppm
多溴联苯醚	N.D.	N.D.	N.D.	5 ppm
单溴联苯醚	N.D.	N.D.	N.D.	5 ppm
二溴联苯醚	N.D.	N.D.	N.D.	5 ppm
三溴联苯醚	N.D.	N.D.	N.D.	5 ppm
四溴联苯醚	N.D.	N.D.	N.D.	5 ppm
五溴联苯醚	N.D.	N.D.	N.D.	5 ppm
六溴联苯醚	N.D.	N.D.	N.D.	5 ppm
七溴联苯醚	N.D.	N.D.	N.D.	5 ppm
八溴联苯醚	N.D.	N.D.	N.D.	5 ppm
九溴联苯醚	N.D.	N.D.	N.D.	5 ppm
十溴联苯醚	N.D.	N.D.	N.D.	5 ppm

说明: - N.D. = 没有检测到 (< 5 ppm)

- ppm = 毫克/千克

样品描述:

No.1 银色金属件 (银色金属)

No.2 铜色金属件 (铜材)

No.3 银色金属件 (银色支架)

\*\*\* 报告完 \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

GZCM 252047

本公司生產之膠片材之物理性能表  
**PHYSICAL CHARACTERISTICS**  
**MINERON PLASTIC SHEETS**



PROPERTIES	物性	METHOD (ASTM) 測試方法	UNIT 單位	PVC	HIPS	APET	PETG
Melting Point	熔點	DSC	°C	—	—	251	—
Glass transition temperature	玻璃化轉變溫度	(DSC)	°C	67.5	94.5	71	74
Deflection temperature	彎曲溫度	(DSC)	°C	62	82	65	74
Shrinkage	收縮率						
90 °C	Horizontal 橫		%	1.0	1.0	1.2	9.0
	Vertical 直			4.8	0	0.6	0.3
110 °C	Horizontal 橫			1.0	5.2	5.0	4.4
	Vertical 直			3.9	1.2	2.3	2.3
Specific Gravity	比重	D 792	g/cm <sup>3</sup>	1.4	1.06	1.34	1.27
Water Absorption	吸水率	D 570	%	0.64	0.46	0.42	0.46
Tensile strength at Break	斷裂強度	D 638	psi	6820	3750	8900	7690
Elongation at Break	斷裂伸長率	D 638	%	178	25	471	6
Tensile Modulus	拉伸模量	D 638	10 <sup>3</sup> psi	759	100	839	618
Hardness (Rockwell)	洛氏硬度	D 785	R	81	69	70	74
Impact Strength (Dart)	落球沖擊強度	D 790	J / M	6100	4000	7200	6900
Flexural Strength	Horizontal 橫	D 790	psi	11800	6590	11200	7980
	Vertical 直						
Flexural Modulus	Horizontal 橫	D 790	10 <sup>3</sup> psi	967	436	731	500
	Vertical 直						
				1010	473	719	583

THE FOLLOWING DATA ARE CONSIDERED TO BE REPRESENTATIVE OF AVERAGE PROPERTIES FOR FILMS OF THICKNESS 0.3mm

以上資料是根據每種片材厚度0.3mm所依據之平均物理性能





Test Report

No. 2031519/EG

Date : Aug 06 2005

Page 1 2

ZHONG FA INDUSTRIAL CO  
FLAT A, 9/F, JAFAT BUILDING 45-47 CONNAUGHT ROAD WEST,  
HONG KONG

Report on the submitted sample said to be PVC 透明膠片

Item No.	1020971
Supplier/Manufacturer	0060714 TISS 11
Country of Origin	TAIWAN
Country of Destination	CHINA
Sample Receiving Date	JUL 27 2005
Testing Period	JUL 28 - AUG 04 2005

Test Requested

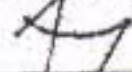
- To determine the Cadmium Content in the submitted sample.
- To determine the Lead Content in the submitted sample.
- To determine the Mercury Content in the submitted sample.
- To determine the Hexavalent Chromium Content on the submitted sample.
- To determine PBBs (polybrominated biphenyls) and PBDEs (Polybrominated diphenylethers) of the submitted sample.
- To determine the Tributyltin (TBT), Triphenyltin (TPT) in the submitted sample.

Test Method

- With reference to BS EN 1122:2001, Method B, analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (AES).
- With reference to EPA Method 3050B/ 3051/ 3052, Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
- With reference to EPA Method 3051/ 3052, Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
- With reference to EPA Method 3060A & 7190A, The samples were alkaline digested by using EPA Method 3060A.
- With reference to SGS in-house method, Analysis was performed by GC/MS.
- With reference to DIN 38407-13, Analysis was performed by GC/MS.

Test Results 1-3) Please refer to next page.

Signed for and on behalf of  
SGS Hong Kong Ltd

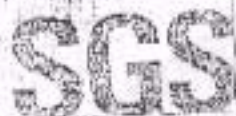


He Ka Ling Family  
Laboratory Executive

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached available upon request or the accessibility at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

Sal and items are not  
ind (ad) it, and look at  
the ple, and became

ZE  
1113  
P3



**Test Report**

No. 2031519/EC

Date : Aug 06 2005

Page 2

**Test Results**

Test Item	Transparent Plastic	Detection Limit
1) Cadmium (Cd)	ND	2 ppm
2) Lead (Pb)	ND	2 ppm
3) Mercury (Hg)	ND	2 ppm
4) Hexavalent Chromium (Cr <sup>6+</sup> )	ND	2 ppm

(Results shown are of the total weight of samples)

Note : ppm = mg/kg

ND = Not Detected

Not detected was reported when the reading is less than detection limit value.

5) Flame Retardants	Transparent Plastic	Detection Limit
<b>Polybrominated Biphenyls (PBBs)</b>	---	---
Polybrominated Biphenyls (PBBs)	ND	5 ppm
Monobromobiphenyl	ND	5 ppm
Dibromobiphenyl	ND	5 ppm
Tribromobiphenyl	ND	5 ppm
Tetrabromobiphenyl	ND	5 ppm
Pentabromobiphenyl	ND	5 ppm
Hexabromobiphenyl	ND	5 ppm
Heptabromobiphenyl	ND	5 ppm
Octabromobiphenyl	ND	5 ppm
Nonabromobiphenyl	ND	5 ppm
Decabromobiphenyl	ND	5 ppm
<b>Polybrominated Diphenylethers (PBDEs)</b>	---	---
Monobromodiphenyl ether	ND	5 ppm
Dibromodiphenyl ether	ND	5 ppm
Tribromodiphenyl ether	ND	5 ppm
Tetrabromodiphenyl ether	ND	5 ppm
Pentabromodiphenyl ether	ND	5 ppm
Hexabromodiphenyl ether	ND	5 ppm
Heptabromodiphenyl ether	ND	5 ppm
Octabromodiphenyl ether	ND	5 ppm
Nonabromodiphenyl ether	ND	5 ppm
Decabromodiphenyl ether	ND	5 ppm

ND = Not Detected

Not detected was reported when the reading is less than detection limit value.

Test Item	Transparent Plastic	Detection Limit
Tributyltin (TBT)	ND	0.02 ppm
Triphenyltin (TPT)	ND	0.02 ppm

Note : ppm = mg/kg

ND = Not Detected

Not detected was reported when the reading is less than detection limit value.

Remark : Test was conducted in SGS Hong Kong Limited

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and for 30 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

and conditions are also d. Additional policies sample(s) are retained

18000100000

4F, Clear Water Bay, Sheung Wan, Hong Kong, China

02049 135-755821/4328 fax

上海外灘中環商務區美隆大廈2樓

郵編: 510046 135-755821/4328 fax

Member of SGS Group

535 10 0 1 1 1

162 5 1 0 1 1 1 1 1

162 5 1 0 1 1 1 1 1

162 5 1 0 1 1 1 1 1



1/1  
长春

長春人造樹脂廠股份有限公司  
 台北市 10477 松江路三零一號七樓  
**CHANG CHUN PLASTICS CO., LTD.**

TLX: 2255 LONGLITE  
 CABLE ADDRESS: LONGLITE TAIPEI

NO. 301 SONGJIANG ROAD, 7FL., TAIPEI, 10477 TAIWAN

FAX: (02)25023078  
 TEL: (02)25058131

\*\*\*\*\*  
**材質說明**  
**MATERIAL FORMULATION CONFIDENTIAL REPORT**  
 \*\*\*\*\*

受寄 Customer:

材質名稱 Type of Material: PBT (Poly Butylene Terephthalate) 聚丁烯對苯二甲酸酯

規格 Grade: PBT 4815 & 4820 & 4830 & 4115 & 4120 & 4130

說明 Description:

茲將 PBT 4815 & 4820 & 4830 & 4115 & 4120 & 4130 組成如下:

規 格	PBT Resin CAS NO. 26062-99-2	Flame Retardant CAS NO. 68928-70-1	Flame Retardant CAS NO. 71342-77-2	Antimony Trioxide CAS NO. 1309-64-6	Glass Fiber CAS NO. 65997-13-3	Additives CAS NO. ..
4115	58.5	16.5	-	5	15	5
4120	53.5	16.5	-	5	20	5
4130	46.5	-	14	4.5	30	5
4815	66	11	-	3	15	5
4820	61	11	-	3	20	5
4830	52.5	10	-	2.5	30	5

供應商 MATERIAL SUPPLIER

Company: CHANG CHUN PLASTICS CO., LTD.

Signature: Chih-Liang Lee

Address: No. 14 KUNG-YEH 1ST ROAD, JEN-WU INDUSTRIES DISTRICT,  
 KAOSHIUNG, TAIWAN, ROC.

Date: NOV. 5, 2004



# TEST REPORT

REPORT NO.KA/2005/B0920

DATE: 2005/11/23

PAGE: 1 OF 3




THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED AND IDENTIFIED BY THE CLIENT AS :

CLIENT : SUNNY MAY ENTERPRISE CO., LTD.  
 PRODUCT DESCRIPTION : GE PC RESIN 945-NC.  
 SAMPLE : AS ATTACHED PHOTO.  
 TESTING DATE : 2005/11/16 TO 2005/11/23.  
 SAMPLE RECEIVED : 2005/11/16.

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122 :2001 or other acid digestion.	2	n.d.
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	n.d.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	n.d.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	n.d.
<b>PBBs(Polybrominated biphenyls)</b>	---	---	---	---
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.
Dibromobiphenyl	%		0.0005	n.d.
Tribromobiphenyl	%		0.0005	n.d.
Tetrabromobiphenyl	%		0.0005	n.d.
Pentabromobiphenyl	%		0.0005	n.d.
Hexabromobiphenyl	%		0.0005	n.d.
Heptabromobiphenyl	%		0.0005	n.d.
Octabromobiphenyl	%		0.0005	n.d.
Nonabromobiphenyl	%		0.0005	n.d.
Decabromobiphenyl	%		0.0005	n.d.

  
 Kueilan Chen / Asst. Supervisor  
 Sign for and on behalf of  
 SGS Taiwan Limited



This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full, without prior written permission of the Company. 本報告係根據客戶之委託，由本公司之實驗室所發出，其內容僅供參考，不得作為其他用途。如有任何爭議，請向本公司洽詢。 本報告之內容，如有任何錯誤，本公司概不負責。 本報告之內容，如有任何修改，本公司概不負責。 本報告之內容，如有任何刪除，本公司概不負責。 本報告之內容，如有任何增加，本公司概不負責。 本報告之內容，如有任何變更，本公司概不負責。 本報告之內容，如有任何其他事項，本公司概不負責。

TW2196666

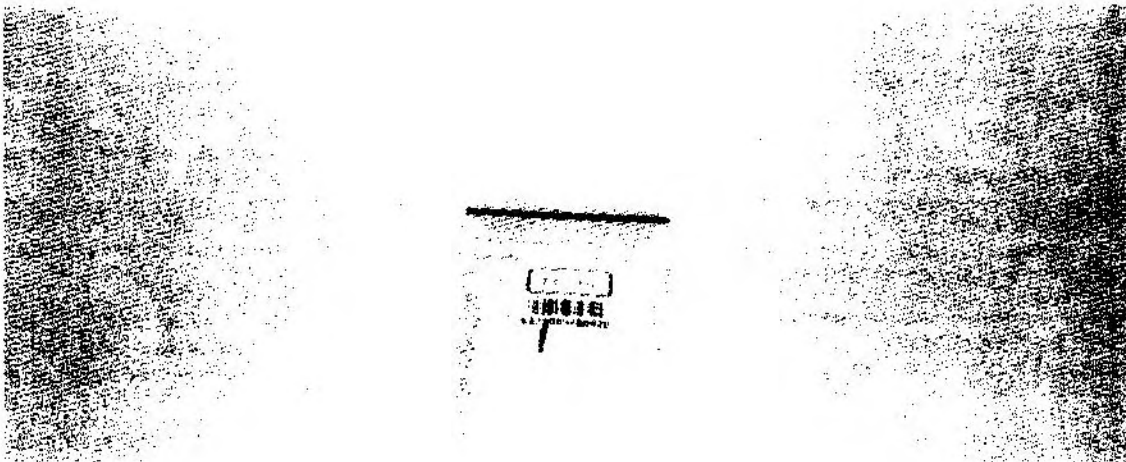


## TEST REPORT

REPORT NO. KA/2005/B0920

DATE: 2005/11/23

PAGE: 3 OF 3



# KA / 2005 / B0920



This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the limitations of liability, indemnification and Jurisdictional issues defined therein. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full, without prior written permission of the Company. 本報告係根據本公司之檢驗報告所製成，其內容僅供參考，不得作為其他用途。本報告之內容僅供參考，不得作為其他用途。本報告之內容僅供參考，不得作為其他用途。

TW2196789



# TEST REPORT

REPORT NO. KA/2005/B0982  
DATE: 2005/11/24  
PAGE: 1 OF 3



THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED AND IDENTIFIED BY THE CLIENT AS :

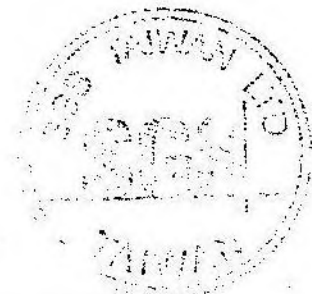
CLIENT : SUNNY MAY ENTERPRISE CO., LTD.  
PRODUCT DESCRIPTION : GE PC RESIN 3412R-739.  
SAMPLE : AS ATTACHED PHOTO.  
TESTING DATE : 2005/11/17 TO 2005/11/24.  
SAMPLE RECEIVED : 2005/11/17.

=====

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122 :2001 or other acid digestion.	2	n.d.
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	n.d.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	n.d.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	n.d.
<b>PBBs(Polybrominated biphenyls)</b>	---	---	---	---
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.
Dibromobiphenyl	%		0.0005	n.d.
Tribromobiphenyl	%		0.0005	n.d.
Tetrabromobiphenyl	%		0.0005	n.d.
Pentabromobiphenyl	%		0.0005	n.d.
Hexabromobiphenyl	%		0.0005	n.d.
Heptabromobiphenyl	%		0.0005	n.d.
Octabromobiphenyl	%		0.0005	n.d.
Nonabromobiphenyl	%		0.0005	n.d.
Decabromobiphenyl	%		0.0005	n.d.

**Kuellan Chen / Asst. Supervisor**  
Sign for and on behalf of  
SGS Taiwan Limited



This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.

TW2197291





TEST REPORT

REPORT NO.KA/2005/B0982

DATE: 2005/11/24

PAGE: 2 OF 3

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
PBDEs(Polybrominated biphenyl ethers)	---	---	---	---
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.
Dibromobiphenyl ether	%		0.0005	n.d.
Tribromobiphenyl ether	%		0.0005	n.d.
Tetrabromobiphenyl ether	%		0.0005	n.d.
Pentabromobiphenyl ether	%		0.0005	n.d.
Hexabromobiphenyl ether	%		0.0005	n.d.
Heptabromobiphenyl ether	%		0.0005	n.d.
Octabromobiphenyl ether	%		0.0005	n.d.
Nonabromobiphenyl ether	%		0.0005	n.d.
Decabromobiphenyl ether	%		0.0005	n.d.

NOTE : 1. n.d. = not detected.

2. DET. LMT = DETECTION LIMIT.

<END>



TW2197290

# SGS

## TEST REPORT

REPORT NO. KA/2005/B0982

DATE: 2005/11/24

PAGE: 3 OF 3



# KA / 2005 / B0982



This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the limitations of liability, indemnification, and Jurisdictional issues defined therein. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.

TW2197177





SHANGHAI BAOSTEEL GROUP  
 宝钢集团  
 上海二钢有限公司  
 SHANGHAI BAOSTEEL GROUP  
 产品质量证明书  
 QUALITY CERTIFICATE

25-3-8  
 221 HUANG XIN ROAD  
 PEOPLE'S REPUBLIC OF CHINA  
 POST CODE: 200030  
 TEL: (021)85384483 85198888-2325  
 FAX: (021)85432823

订货单位 CUSTOMER	产品名称 PRODUCT	客户订货编号 CUSTOMER ORDER NO.	证书号 CERTIFICATE NO.
收货单位 PURCHASER	生产日期 DATE OF ISSUE	2005.01.17	05-082960
规格 SPECIFICATION	许可证号 LICENSE NO.	合同号 CONTRACT NO.	交货日期 DATE OF DELIVERY
			2005.01.15

序号 NO.	原号 HEAT NO.	批号 LOT NO.	牌子 DESIGNATION	直径 D (mm)	盘数 QTY	重量 WASS (kg)	化学成分 %						机械性能						
							C	SI	Mn	P	S	Cu	Al	屈服 YS Mpa	抗拉 TS Mpa	伸长 EL %	减径 RA %	壁厚 BT d (mm)	厚度 CS
1	120439	3-138	SMM110-1	5.50	184	282423	0.11	0	0.28	0.01	0	0	285	305	30				
合计 TOTAL							盘数: 184	重量: 282420 kg											

备注  
REMARKS

说明  
NOTES

检验者  
SURVEYOR TO

D-DIAMETER VS-YIELD STRENGTH TS-TENSILE STRENGTH EL-ELONGATION  
 R.T.-COOL-BRAND TEST U.T.-UPSET TEST DEC-DECARBURIZATION G.S.-GRAIN SIZE S.F.-SURFACE FINISH

本产品已按上述要求进行了检验，其结果符合要求，特此证明。  
 TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE MATERIAL SPECIFICATION

宝钢集团  
 SHANGHAI BAOSTEEL GROUP  
 上海二钢有限公司  
 SHANGHAI BAOSTEEL GROUP  
 质量管理部  
 QUALITY MANAGEMENT DEPT.







## Test Report

No.: GZSCR050751200/LP

Date: JUL 25, 2005 Page 1 of 1

DONGGUAN QISHI JINXIN HARDWARE PRODUCT FACTORY  
UNIT 1304 13/F, HONOUR INDUSTRIAL CENTRE,  
6 SUN YIP STREET, CHAI WAN, HONGKONG

Report on the submitted sample said to be 铁丝, 1018

SGS Ref No. : SZ050713984EC  
Sample Receiving Date : JUL 19, 2005  
Testing Period : JUL 19, 2005 TO JUL 25, 2005

Test Requested : As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : Lead content - In house method, with reference to EPA method 3050B: 1996.  
Cadmium content - In house method, with reference to BS EN1122: 2001 method B.  
Mercury content - In house method, with reference to EPA 3052: 1996.  
Hexavalent Chromium content - With reference to EPA 3060A: 1996 & EPA 7195A: 1992.  
Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.

### RESULTS

	No. 1	No. 2
Lead Content (Pb)	N.D.	N.D.
Cadmium Content (Cd)	N.D.	N.D.
Mercury Content (Hg)	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.	N.D.

Note :- N.D. = Not Detected (< 2 ppm)  
- ppm = mg/kg

Specimen description:  
No.1 Grey metal wire (2.92)  
No.2 Grey metal wire (2.59)

\*\*\* End of Report \*\*\*

Signed for and on behalf of  
SGS-CSTC Ltd.

  
He Xiaoyan, Jane  
Tech. Manager

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.





**Test Report**

No. 2012293/EC

Date: Feb 02 2005

Page 1 of 2

EVER SPECIAL GROUP HUIZHOU COMPANY  
EVER SPECIAL INDUSTRY,  
GARDEN LONGXI TOWN,  
BOLUO COUNTY,  
HUIZHOU CITY,  
GUANGDONG PROVINCE

Report on the submitted samples said to be PC

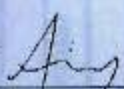
SGS Job No. : 1695299  
SGS Ref. No. : SZECO050101122EC-2.1  
Sample Receiving Date : JAN 22 2005  
Testing Period : JAN 22-31 2005

Test Requested : 1) To determine the Cadmium Content in the submitted sample.  
2) To determine the Lead Content on the submitted sample.  
4) To determine the Hexavalent Chromium Content on the submitted sample.  
5) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : 1) With reference to BS EN 1122:2001, Method B, analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).  
2) As specified in EPA Method 3050B. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).  
3) As specified in EPA Method 3052. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).  
4) As specified in EPA Method 3060A & 7196A. The samples were alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A.  
5) With reference to SGS in-house method. Analysis was performed by GC/MS.

Test Results : 1-5) Please refer to next page

Signed for and on behalf of  
SGS Hong Kong Ltd

  
Lee Fung Mei, Miranda  
Senior Manager

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.



### Test Results

#### Element

- 1) Cadmium (Cd)
- 2) Lead (Pb)
- 3) Mercury (Hg)
- 4) Hexavalent Chromium (Cr<sup>6+</sup>)

#### Black Plastic (PC)

3 ppm

< 2 ppm

< 2 ppm

< 2 ppm

(Results shown are of the total weight of samples)

Note : < = Less than  
ppm = mg/kg

	Black Plastic (PC)	Detection Limit
<b>Polybrominated Biphenyls (PBBs)</b>		
Monobromobiphenyl	ND	5 ppm
Dibromobiphenyl	ND	5 ppm
Tribromobiphenyl	ND	5 ppm
Tetrabromobiphenyl	ND	5 ppm
Pentabromobiphenyl	ND	5 ppm
Hexabromobiphenyl	ND	5 ppm
Heptabromobiphenyl	ND	5 ppm
Octabromobiphenyl	ND	5 ppm
Nonabromobiphenyl	ND	5 ppm
Decabromobiphenyl	ND	5 ppm
<b>Polybrominated Diphenylethers (PBDEs)</b>		
Monobromodiphenyl ether	ND	5 ppm
Dibromodiphenyl ether	ND	5 ppm
Tribromodiphenyl ether	ND	5 ppm
Tetrabromodiphenyl ether	ND	5 ppm
Pentabromodiphenyl ether	ND	5 ppm
Hexabromodiphenyl ether	ND	5 ppm
Heptabromodiphenyl ether	ND	5 ppm
Octabromodiphenyl ether	ND	5 ppm
Nonabromodiphenyl ether	ND	5 ppm
Decabromodiphenyl ether	ND	5 ppm

Note: ND = Not Detected  
Non-detected is lower than detection limit value.

\*\*\* End of Report \*\*\*

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.

SF - 8/F & 28/F - 29/F Metropole Square, 2 On Yiu Street, Siu Lek Yuen, Shatin, N.T., Hong Kong. T: (854) 2334 4485 F: (854) 2764 3125 www.hk.sgs.com

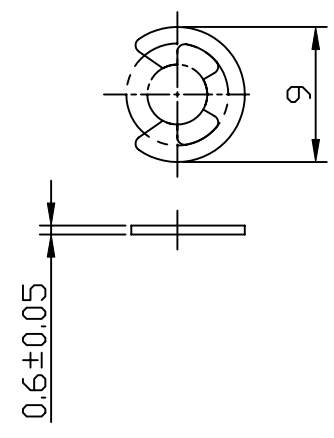
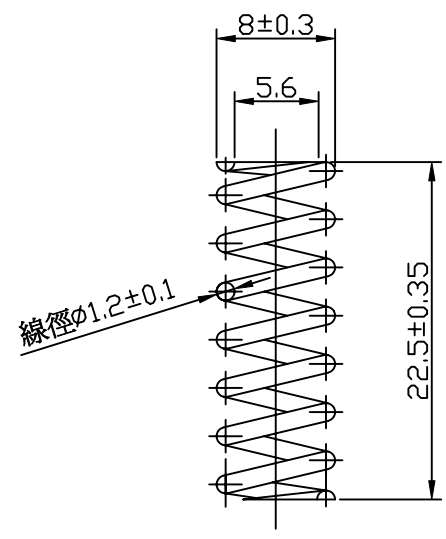
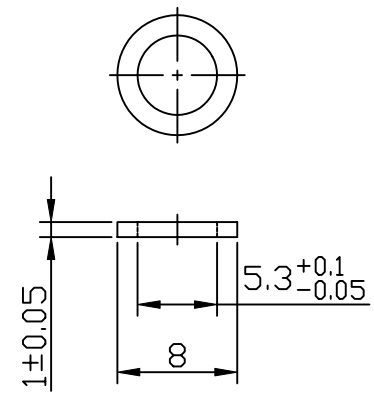
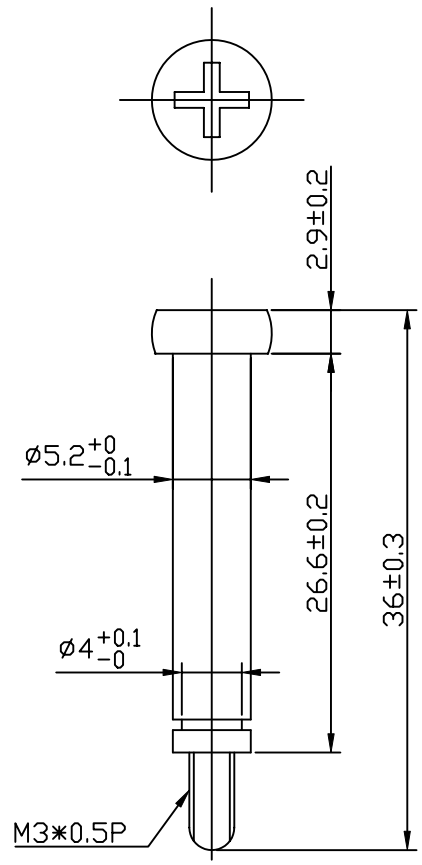
Member of the SGS Group of Companies

A

B

C

D



TOL ±								○
RANGE	M1	M2	S1	S2	P1	P2	C	URS
0~6	0.05	0.10	0.15	0.20	0.05	0.10	0.50	<b>0.20</b>
6~30	0.10	0.20	0.15	0.25	0.10	0.15	1.00	<b>0.25</b>
30~120	0.15	0.25	0.20	0.30	0.20	0.40	2.00	<b>0.45</b>
120~300	0.15	0.30	0.25	0.45	0.40	0.80	3.00	<b>0.80</b>
300~600	0.20	0.50	0.40	0.60	0.60	1.20	3.00	<b>1.20</b>
600~1200	0.30	0.80	0.70	1.10	0.80	1.50	4.00	<b>1.50</b>
ANG. TOL ±	1°							

MODEL	<b>JAS093C</b>		NAME	<b>Spring Screw Kit</b>					
DRN	<b>Joyce</b>	08/03 2005	MATERIAL	---		REV.	DESCRIPTION	SIGN DATE	
DSN	<b>Joyce</b>	08/03 2005	FINISH	---			DIM IN	mm	DO NOT SCALE DWG
CKD	<b>John</b>	08/03 2005	CHIA CHERNE INDUSTRY CO.,LTD				SHEET	1	OF
APPD	<b>Kevin</b>	08/03 2005							DRAWING NO.

A

B

C

D





# QUALITY CERTIFICATION

## 品質證明書

Customer 客戶	盈豪	Order NO.		Date 日期	2003/3/28
Specification 規格	SW-C 1.20mm	Process No. 製造工令	M30314	Q.A. Department 品質部	
Standard 依據標準	JIS G 3521				
Characteristic 項目	Diameter (mm) 線徑	Ovality (mm) 徑偏差	T.S. (kg/mm <sup>2</sup> ) 抗拉強度	Twist No.(turns) 扭轉數	Wrapping 捲繞測試
Standard Values 標準值	1.20(-0.015)	0.005MAX	195~220	30MIN	GOOD
Average results 測試平均值	1.193	0.003	203	45	N.A
Chemical Analysis 成份分析	C	Si	Mn	P	S
Standard Values 標準值	0.79~0.86	0.15~0.35	0.30~0.60	0.03MAX	0.03MAX
Test Results 測試平均值	0.83	0.22	0.49	0.018	0.008

PS: Wrapping test is suitable for the wire diameter less than 0.5mm.  
 註: 捲繞測試適用線徑小於0.5mm硬抽鋼線。



Spring Yi Industrial Co., LTD

Spring Yi Industrial Co., Ltd.  
 盈豪有限公司



## Test Report

CHUNG YIN SPRING INDUSTRIAL CO., LTD.  
36, ALLEY 42, CHUNG HSIN N. ST., SAN CHUNG  
CITY, TAIPEI HSIEN, TAIWAN, R. O. C.

Report No. : CE/2004/73547  
Date : 2004/08/03  
Page : 1 of 1

The following merchandise was (were) submitted and identified by the client as :


Type of Product : SAE1018-Ni  
Sample Received : 2004/07/27  
Testing Date : 2004/07/27 TO 2004/08/03

### Test Result

PART NAME NO.1 : SILVER COLORED METAL

Test Item (s):	Unit	Method	MDL	Result			
				No.1			
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.			
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.			
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.			
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	27.3			

NOTE: (1) N.D. = Not detected (<MDL)  
(2) ppm = mg/kg  
(3) MDL = Method Detection Limit

  
Daniel Yen, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the limitations of liability, indemnification, and jurisdictional issues defined therein. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full, without prior written permission of the Company. 此報告僅屬本公司訂定之檢驗服務條款所製作發給。請注意此報告印刷於背面。將本公司之服務、免責、管轄權聲明等。此報告結果除另有說明外對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。

TW 0975158

SGS Taiwan Ltd. | No. 136-1 Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan. / 台北縣五股工業區五工路136-1號  
台灣檢驗科技股份有限公司 | t (886-2) 2299-3939 | f (886-2) 2299-3237 | www.tw.sgs.com

Member of SGS Group



## Test Report

CHUNG YIN SPRING INDUSTRIAL CO., LTD.  
36, ALLEY 42, CHUNG HSIN N. ST., SAN CHUNG  
CITY, TAIPEI HSIEN, TAIWAN, R. O. C.

Report No. : CE/2004/73545  
Date : 2004/08/03  
Page : 1 of 1

The following merchandise was (were) submitted and identified by the client as :

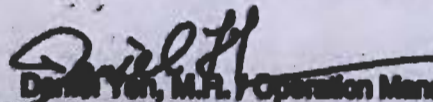
Type of Product : SWC-Ni  
Sample Received : 2004/07/27  
Testing Date : 2004/07/27 TO 2004/08/03

### Test Result

PART NAME NO.1 : SILVER COLORED METAL SCREW

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.				
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.				
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.				
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	40.3				

NOTE: (1) N.D. = Not detected (<MDL)  
(2) ppm = mg/kg  
(3) MDL = Method Detection Limit

  
Daniel Yen, M.P.L. Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the limitations of liability, indemnification, and jurisdictional issues defined therein. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full, without prior written permission of the Company. 此報告是根據本公司訂定之通用服務條款所製作之報告。請注意此報告列印之背面。請本公司之服務。免責。若無標明明確範圍之。此報告結果除另有說明僅對檢驗之樣品負責。本報告未經本公司審核許可。不可部份複製。

TW 0975156

SGS Taiwan Ltd. No. 136-1 Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan. / 台北縣五股工業區五工路136-1號  
台湾檢驗科技股份有限公司 ☎ (886-2) 2299-3229 ☎ (886-2) 2299-3237 www.tw.sgs.com

Member of SGS Group





## Test Report

CHUNG YIN SPRING INDUSTRIAL CO., LTD.  
36, ALLEY 42, CHUNG HSIN N. ST., SAN CHUNG CITY,  
TAIPEI HSIEN, TAIWAN, R. O. C.

Report No. : CE/2005/90302  
Date : 2005/09/07  
Page : 1 of 1

**The following merchandise was (were) submitted and identified by the client as :**

Type of Product : S50C Ni  
Sample Received : 2005/08/31  
Testing Date : 2005/08/31 TO 2005/09/07

=====

### Test Result

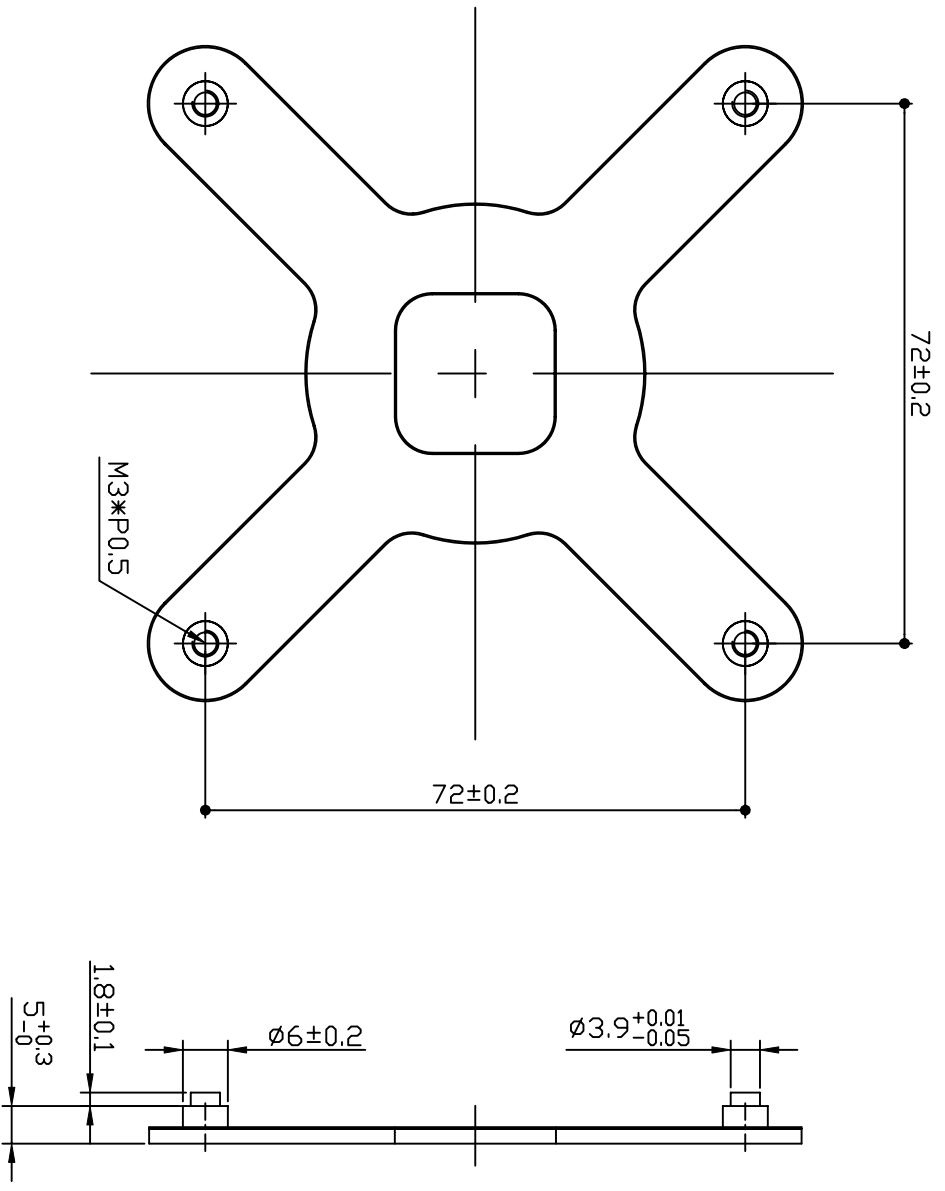
PART NAME NO.1 : SILVER COLORED METAL

Test Item (s):	Unit	Method	MDL	Result
				No. 1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.

NOTE: (1) N.D. = Not detected (<MDL)  
(2) ppm = mg/kg  
(3) MDL = Method Detection Limit

  
Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

The content of this PDF file is in accordance with the original issued reports for reference only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company



TOL #	M1	M2	S1	S2	P1	P2	C	URS
0~6	0.05	0.10	0.15	0.20	0.05	0.10	0.50	0.20
6~30	0.10	0.20	0.15	0.25	0.10	0.15	1.00	0.25
30~120	0.15	0.25	0.20	0.30	0.20	0.40	2.00	0.45
120~300	0.15	0.30	0.25	0.45	0.40	0.80	3.00	0.80
300~600	0.20	0.50	0.40	0.60	0.60	1.20	3.00	1.20
600~1200	0.30	0.80	0.70	1.10	0.80	1.50	4.00	1.50

MODEL	NAME
JAT094	Base Plate
DRN	Fanny
DSN	John
CKD	Richard
APPD	Auric
MATERIAL	---
FINISH	---
CHIA CHERNE INDUSTRY CO.,LTD	

REV.	DESCRIPTION	SIGNATURE	DATE
---			

DIM IN	mm	DD NOT SCALE	DWG
SHEET	1	OF	1

DRAWING NO. **JAT094**



客戶名稱 SOLD TO	證明書編號 CERTIFICATE NO.	02040038	證明書日期 ISSUE DATE	2002-04-02
製品名稱 COMMODITY	打單號碼 ORDER NO.		交運日期 SHIPPING DATE	2002-04-01
製品規格 SPECIFICATION	客戶編號 CUSTOMER NO.	IS3137	發票號碼 INVOICE NO.	

項目 ITEM NO	鋼卷編號 COIL NO.	試片編號 SAMPLE NO.	尺寸規格 MATERIAL DESCRIPTION				爐號 HEAT NO.	化學成份 CHEMICAL COMPOSITION %	厚度 SIZE	鋼種 GRADE	試驗 TEST	試驗 TEST	試驗 TEST	試驗 TEST	試驗 TEST	試驗 TEST	試驗 TEST	試驗 TEST
			厚度 THICK	寬度 WIDTH	長度 LENGTH	重量 WEIGHT												
			MM	MM	MM	KG												
01	131331A001		.690	1220		45553		58	58									
02	131337A005		1.150	1219		28885		58	58									
03	131338A005		1.150	1219		49339		60	60									
04	131332A005		1.150	1219		57215		54	54									
05	131332A005		.980	1219		0234705		53	53									
06	131337A005		.990	1219		0294735		58	58									

TOTAL WEIGHT: 58130

INFORM REFERENCE ONLY

SURVEYOR TO

茲證明本表所列製品，均係材料規格製造及試驗，並符合規格之要求。  
WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.

鋼鐵企業股份有限公司  
YEH LOONG ENTERPRISE CO., LTD.

簡洪備  
DEPUTY SUPERINTENDENT,  
C-31F-100/111 WURD



# Laminating Adhesives Data Page

---

FOD # 0330

## 3M™ 467MP Roll Laminating Adhesive 468MP Roll Laminating Adhesive

### Product Construction

	<u>Adhesive</u>	<u>Liner</u>
467MP	2.0 mils (50 microns) #200MP “Hi-Performance” Acrylic Adhesive	4.0 mils (100 microns) 58# Tan Polycoated Kraft Paper
468MP	5.0 mils (125 microns) #200MP “Hi-Performance” Acrylic Adhesive	4.0 mils (100 microns) 58# Tan Polycoated Kraft Paper

### Features

- High performance solvent-free acrylic adhesive for exceptional environmental resistance and enhanced bond strength.
- Superior adhesive smoothness for improved clarity and reduced telegraphing through thin plastic facestocks.
- High cohesive strength for resistance to edge lifting and slippage.
- 2.0 mil 467MP is ideal for application to relatively smooth surfaces.
- 5.0 mil 468MP is ideal for application to a variety of rough or textured surfaces.
- Moisture stable liner resists curling or wrinkling in high humidity.
- 200MP Hi-Performance adhesive is initially repositionable, then builds to high ultimate bond strength.



## Applications

- Long term bonding of nameplates and decorative trim to metal and high surface energy plastics in the automotive, appliance and electronic markets.
- Excellent adhesive for bonding metal and plastic nameplates in the aerospace, instrumentation and medical markets.
- Used for lamination to back printed polycarbonate or polyester graphic overlay materials in the automotive, electronics and membrane switch markets.
- Used for lamination of wood veneers and plastic laminates to cabinetry and furniture.
- Used in the assembly of membrane switches, including spacers for circuit separation graphic overlay for switch display and bonding the complete switch to the application surface.

## Physical Properties

(Typical values – not for specification use)

ASTM D-3330 (modified)

90 degree peel, 12"/min.

(305 mm/min) 2 mil

aluminum

	<b>Product</b>	<b>20 Min. Dwell</b>	
		<b>Oz./In. N/100 mm</b>	
- Metal (Stainless Steel)	467MP	44	48
	468MP	59	64
- High Surface Energy Plastic (ABS)	467MP	40	44
	468MP	52	57

3M Test (90 degree peel,

12"/min. 305 mm/min.)

2 mil aluminum to

various surfaces

	<b>Product</b>	<b>72 Hr. Dwell</b>		<b>Ultimate Bond</b>	
		<b>Oz./In. N/100 mm</b>		<b>Oz./In. N/100 mm</b>	
- Metal (Stainless Steel)	467MP	82	90	113	124
	468MP	109	119	178	194
- High Surface Energy Plastic (ABS)	467MP	47	51	43	47
	468MP	61	67	58	63
- Low Surface Energy Plastic (Polypropylene)	Not Recommended				

## Environmental Performance

The properties defined are based on the attachment of impervious faceplate materials (such as aluminum) to an aluminum test surface.

Bond Build-up:	The bond strength of #200MP "Hi-Performance" Acrylic Adhesive increases as a function of time and temperature.
Humidity Resistance:	High humidity has a minimal effect on adhesive performance. Bond strengths are generally higher after exposure for 7 days at 90 degrees F (32 degrees C) and 90% relative humidity.
U.V. Resistance:	When properly applied, nameplates and decorative trim parts are not adversely affected by outdoor exposure.
Water Resistance:	Immersion in water has no appreciable effect on the bond strength. After 100 hours in room temperature water the bond actually shows an increase in strength.
Temperature Cycling Resistance:	Bond strength generally increases after cycling four times through: 4 hours at 158 degrees F (70 degrees C) 4 hours at -20 degrees F (-29 degrees C) 16 hours at room temperature
Chemical Resistance:	When properly applied, nameplate and decorative trim parts will hold securely after exposure to numerous chemicals including gasoline, oil, "Freon" TF, sodium chloride solution, mild acids and alkalis.
Low Service Temp:	-40 degrees F (-40 degrees C).
Heat Resistance:	The #200MP "Hi-Performance" adhesive is usable for short periods (minutes, hours) at temperatures up to 400 degrees F (204 degrees C) and for intermittent longer periods of time (days, weeks) up to 300 degrees F (149 degrees C).
Shelf Life:	Product retains its performance and properties for two years from date of manufacture if properly stored at room temperature conditions of 72 degrees F (22 degrees C) and 50% R.H. Storage in plastic bag is recommended.

## Processing

Die-cutting:	Excellent die-cuttability. For easier processing lubricate dies with Laminoleum vanishing oil available from Metal Lubricants (708-333-8900).
Roll Laminating:	Excellent processability. A combination of metal and rubber rollers with moderate pressure is recommended.



## Special Considerations/Application Tips

For maximum bond strength the surface should be thoroughly cleaned and dried. Typical cleaning solvents are heptane or isopropyl alcohol. Consult solvent manufacturer's Material Safety Data Sheet for proper handling and storage instructions.

Bond strength can also be improved with firm application pressure and moderate heat causing the adhesive to develop intimate contact with the bonding surface.

Ideal adhesive application temperature range is 70 degrees F to 100 degrees F (21 degrees C to 38 degrees C). Application is not recommended if surface temperature is below 50 degrees F (10 degrees C) because the adhesive becomes too firm to adhere readily. Once properly applied, low temperature holding is satisfactory. For more specific information contact our Customer Service and Sales Support "hot line" at 1-800-223-7427.

2/15/96

**Terms and Conditions of Sale** for products sold by 3M Identification and Converter Systems Division can be found in the ICSD Price Book and in other appropriate schedules.

**Technical Data:** All physical properties, statements, and recommendations are either based on tests we believe to be reliable or our experience, but they are not guaranteed. 3M recommends each user determine the suitability of the products for the intended use.

**Warranty and Limited Remedy:** THE FOLLOWING WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, A CUSTOM OR USAGE OF TRADE: 3M warrants its product will be free from all defects.

If a product is proved to be defective, then the exclusive remedy 3M's and seller's sole obligation shall be, at 3M's option, to replace the quantity of the product which is proved to be defective or to refund the purchase price.

**Limitation of Liability:** 3M and seller shall not be liable for direct, indirect, special, incidental or consequential damages based breach of warranty, breach of contract, negligence, strict liability or any other legal theory.

The foregoing Warranty and Limited Remedy and Limitation of Liability may be changed only by a written agreement signed by authorized officers of 3M and seller.

Scotch, ScotchMark, ScotchCap, and Stamark are trademarks of 3M.



### Identification and Converter Systems Division

3M Center, Building 220-7W-03  
St. Paul, MN 55144-1000  
USA  
1 800 223 7427  
1 800 258 7511 FAX  
e-mail idconvert@mmm.com

### 3M Canada Inc.

PO Box 5757  
London, Ontario  
Canada N6A 4TI  
1 800 265 1840  
519 452 6090 FAX  
©3M 1996

### 3M Mexico, S.A. de C.V.

Apartado Postal 14-139  
Mexico, D.F. 07070  
Mexico  
52 5 728 2289  
52 5 728 2299 FAX

### 3M Puerto Rico, Inc.

Puerto Rico Industrial Park  
PO Box 100  
Carolina, PR 00986-0100  
809 750 3000  
809 750 3035 FAX

# 汎瑋企業有限公司



TRAN-SUN INTERNATIONAL COMPANY LTD

## Faxmessage

Number of pages:1

ATTN :

E-mail : transsun@ms55.hinet.net

Phone : 886-4-23592471.23504239

Fax : 886-4-23592446

Tel No :

1F NO68.1RD TAICHUNG INDUSTRIAL PARK

Fax No :

TAICHUNG, TAIWAN, R.O.C.

FROM : 莊仁颯 0932-621030

您好:

### 物 性 表

型 式	硬 質 P.V.C. 膠 布		
規 格	0.15 - 0.3 MM		
色 澤	<input type="checkbox"/> 不透明 <input type="checkbox"/> 透明 <input type="checkbox"/> 霧面		
比 重	1.4± 3 %	<input type="checkbox"/> 含 <input type="checkbox"/> 不含色料	(ASTM D-792-66)
拉力強度	350 - 450 KG/C m <sup>2</sup> (min)		(ASTM-D 638/882)
落球強度	2.5 - 5.0 1b-in/mil		
伸 長 率	80 - 120 % (min)		(ASTM-D 638/882)
耐衝擊強度	3.8 - 4.8 KG CM/ C m <sup>2</sup> (min)		ASTM-D 256-54T
熱變形強度	58 - 80 (min)		(ASTM-D 1637)
透 明 度	*****	% (min)	
備 註	1. 忌潮、溼氣、日曬！！ 2. 本測試僅提供參考(實驗室測試)		



## Test Report

CHUNG YIN SPRING INDUSTRIAL CO., LTD.  
36, ALLEY 42, CHUNG HSIN N. ST., SAN CHUNG  
CITY, TAIPEI HSIEN, TAIWAN, R. O. C.

Report No. : CE/2004/73547  
Date : 2004/08/03  
Page : 1 of 1

The following merchandise was (were) submitted and identified by the client as :


Type of Product : SAE1018-Ni  
Sample Received : 2004/07/27  
Testing Date : 2004/07/27 TO 2004/08/03

### Test Result

PART NAME NO.1 : SILVER COLORED METAL

Test Item (s):	Unit	Method	MDL	Result			
				No.1			
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.			
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.			
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.			
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	27.3			

NOTE: (1) N.D. = Not detected (<MDL)  
(2) ppm = mg/kg  
(3) MDL = Method Detection Limit

  
Daniel Yen, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the limitations of liability, indemnification, and jurisdictional issues defined therein. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full, without prior written permission of the Company. 此報告係根據本公司訂定之檢驗服務條款所製作發給。請注意此報告印刷於背面。將本公司之服務、免責、管轄權聲明等。此報告結果除另有說明對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。

TW 0975158

SGS Taiwan Ltd.  
台灣檢驗科技股份有限公司

No. 136-1 Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan.  
t (886-2) 2299-3939

f (886-2) 2299-3237

/台北縣五股工業區五工路136-1號  
www.tw.sgs.com

Member of SGS Group



## Test Report

CHUNG YIN SPRING INDUSTRIAL CO., LTD.  
36, ALLEY 42, CHUNG HSIN N. ST., SAN CHUNG  
CITY, TAIPEI HSIEN, TAIWAN, R. O. C.

Report No. : CE/2004/73545  
Date : 2004/08/03  
Page : 1 of 1

The following merchandise was (were) submitted and identified by the client as :

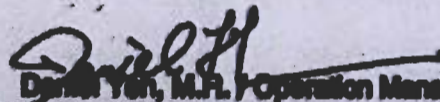
Type of Product : SWC-Ni  
Sample Received : 2004/07/27  
Testing Date : 2004/07/27 TO 2004/08/03

### Test Result

PART NAME NO.1 : SILVER COLORED METAL SCREW

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.				
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.				
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.				
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	40.3				

NOTE: (1) N.D. = Not detected (<MDL)  
(2) ppm = mg/kg  
(3) MDL = Method Detection Limit

  
Daniel Yen, M.P. Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the limitations of liability, indemnification, and jurisdictional issues defined therein. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full, without prior written permission of the Company. 此報告是根據本公司訂定之通用服務條款所製作之報告。請注意此報告內印影有圖。請本公司之服務。免責。管轄權聲明條款之。此報告結果除另有說明僅對檢驗之樣品負責。本報告未經本公司審核許可。不可部份複製。

TW 0975156

SGS Taiwan Ltd. No. 136-1 Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan. / 台北縣五股工業區五工路136-1號  
台灣檢驗科技股份有限公司 ☎ (886-2) 2299-3939 ☎ (886-2) 2299-3237 www.tw.sgs.com

Member of SGS Group





## Test Report

CHUNG YIN SPRING INDUSTRIAL CO., LTD.  
36, ALLEY 42, CHUNG HSIN N. ST., SAN CHUNG CITY,  
TAIPEI HSIEN, TAIWAN, R. O. C.

Report No. : CE/2005/90302  
Date : 2005/09/07  
Page : 1 of 1

**The following merchandise was (were) submitted and identified by the client as :**

Type of Product : S50C Ni  
Sample Received : 2005/08/31  
Testing Date : 2005/08/31 TO 2005/09/07

### Test Result

PART NAME NO.1 : SILVER COLORED METAL

Test Item (s):	Unit	Method	MDL	Result
				No. 1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.

NOTE: (1) N.D. = Not detected (<MDL)  
(2) ppm = mg/kg  
(3) MDL = Method Detection Limit

  
Daniel Yeh, M.F., Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

The content of this PDF file is in accordance with the original issued reports for reference only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company



品質證明書  
TEST CERTIFICATE

CHINA STEEL CORPORATION  
中華人民共和國上海市外灘中環廣場  
1 CHUNG KANG ROAD HONG KONG, KAOHSIUNG  
TAIWAN, REPUBLIC OF CHINA.  
TEL: (86)902 1141 FAX: (86)902 2511 (86)901 4877

94663

1215-6.35

900290-01 0374

客戶名稱 CUST	吉林工業股份有限公司 CAMELIA METAL CO., LTD. BR. SEC. 2, CHANG HUA RD., CHANG LI, TAOYUAN	產品名稱 ITEM	鋼板 STEEL SHEET
廠址 FAC	SAE 13 TEAMS (S700)	檢驗項目 TEST	CSL MILL INSPECTION
客戶訂單編號 ORDER NO.	94663	檢驗日期 TEST DATE	2005.09.06
檢驗日期 TEST DATE	2005.09.06	檢驗地點 TEST PLACE	CHINA STEEL CORPORATION
檢驗員 TESTER	YEL HONG	檢驗設備 TEST EQUIP.	CSL MILL INSPECTION

項目 ITEM	產品序號 SERIAL NO.	尺寸及公差 DIMENSIONS	重量 WEIGHT	檢驗結果 TEST RESULT	備註 REMARKS
LR	CH003 01	0.00	0.72128858	合格	
	CH003 02	TOTAL	14.16.000	合格	

化學成分 CHEMICAL ANALYSIS %	檢驗結果 TEST RESULT	備註 REMARKS
C	0.170	合格
Mn	1.26	合格
P	0.012	合格
S	0.002	合格
Si	0.035	合格
Al	0.005	合格

此證明書僅供參考，請依材料標準檢驗及試驗，並符合製備之要求。  
WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.

成分查符  
YEL HONG

YEL HONG  
品質保證工程師  
QUALITY ASSURANCE ENGINEER



APPLICANT: TONG YU INDUSTRY CO., LTD  
NO2-32 LANE 518  
SEC 3 CHUNGSHAN RD  
CHANGHUA CITY CHANGHUA COUNTY 500  
TAIWAN R.O.C.

DATE : JAN 06, 2006

SAMPLE DESCRIPTION:

ONE (1) GROUP OF SUBMITTED SAMPLES SAID TO BE :  
SAMPLE DESCRIPTION : JIS G3141 SERIES + ANODIZING BLACK  
DATE SAMPLE RECEIVED : DEC 30, 2005  
DATE TEST STARTED : DEC 30, 2005

\*\*\*\*\*

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE REFER TO ATTACHED PAGES.

\*\*\*\*\*

PREPARED AND CHECKED BY:  
FOR INTERTEK TESTING SERVICES  
TAIWAN LIMITED



JACOB LIN  
GENERAL MANAGER

TESTS CONDUCTED

(A) TEST RESULT SUMMARY :

<u>TESTING ITEM</u>	<u>RESULT (ppm)</u>
	SUBMITTED SAMPLES
CADMIUM (Cd) CONTENT	ND
LEAD (Pb) CONTENT	26
MERCURY (Hg) CONTENT	ND
CHROMIUM VI (Cr <sup>6+</sup> ) CONTENT	ND

REMARKS : ppm = PARTS PER MILLION  
 ND = NOT DETECTED

(B) TEST METHOD :

<u>TESTING ITEM</u>	<u>TESTING METHOD</u>	<u>REPORTING LIMIT</u>
CADMIUM (Cd) CONTENT	WITH REFERENCE TO USEPA 3052, BY MICROWAVE DIGESTION AND DETERMINED BY ICP-OES	2 ppm
LEAD (Pb) CONTENT	WITH REFERENCE TO USEPA 3052, BY MICROWAVE DIGESTION AND DETERMINED BY ICP-OES	2 ppm
MERCURY (Hg) CONTENT	WITH REFERENCE TO USEPA 3052, BY MICROWAVE DIGESTION AND DETERMINED BY ICP-OES	2 ppm
CHROMIUM VI (Cr <sup>6+</sup> ) CONTENT	WITH REFERENCE TO USEPA 3060A & 7196A, BY ALKALINE DIGESTION AND DETERMINED BY UV-VIS	1 ppm

REMARK : REPORTING LIMIT = QUANTITATION LIMIT OF ANALYTE IN SAMPLE

\*\*\*\*\*  
 END OF REPORT





# Test Report

3M TAIWAN LTD.  
NO.66, LANE 800, CHUNG SHAN S. RD, YANGMEI,  
TAOYUAN HSIEN, TAIWAN, R.O.C.

Report No : CE/2004/32425  
Date : 2004/03/19  
Page : 1 of 2

**The following merchandise was(were) submitted and identified by the client as :**

Type of Product : 3M HIGH PERFORMANCE ADHESIVE TRANSFER TAPE  
Style/Item No : 3M 467MP  
Sample Received : 2004/03/17.  
Testing Date : 2004/03/17 TO 2004/03/19

=====  
**Test Result** : - Please see the next page -

  
Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.



# Test Report

3M TAIWAN LTD.  
NO.66, LANE 800, CHUNG SHAN S. RD, YANGMEI,  
TAOYUAN HSIEN, TAIWAN, R.O.C.

Report No : CE/2004/32425  
Date : 2004/03/19  
Page : 2 of 2

## Test Result

PART NAME NO.1 : TRANSPARENT DOUBLE TAPE

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
Arsenic (As)	ppm	ICP-AES After As per US EPA 3052 or other acid digestion.	2	N.D.				
Barium (Ba)	ppm	ICP-AES After As per US EPA 3050B or other acid digestion.	2	14.3				
Cadmium (Cd)	ppm	ICP-AES After As per EN 1122, Method B:2001 or other acid digestion.	2	N.D.				
Chromium (Cr)	ppm	ICP-AES After As per US EPA 3050B or other acid digestion.	2	N.D.				
Mercury (Hg)	ppm	ICP-AES After As per US EPA 3052 or other acid digestion.	2	N.D.				
Lead (Pb)	ppm	ICP-AES After As per US EPA 3050B or other acid digestion.	2	N.D.				
Antimony (Sb)	ppm	ICP-AES After As per US EPA 3050B or other acid digestion.	2	N.D.				
Selenium (Se)	ppm	ICP-AES After As per US EPA 3052 or other acid digestion.	2	N.D.				

- NOTE : (1) N.D. = Not detected.(<MDL)  
(2) ppm = mg/kg  
(3) MDL= Method Detection Limit  
(4) " ---" = Not Applicable  
(5) " -" = Not Regulation  
(6) \* = Results shown are of the adjusted analytical results.  
(7) \*\*= Qualitative analysis(No Unit)  
(8) Negative = Undetectable / Positive = Detectable.





Test Report

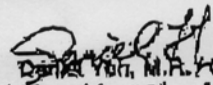
To: 李品儀小姐  
From: 洪子章

報告號碼 : CE/2005/62169A  
日期 : 2005/06/16  
頁數 : 1 of 4

以下測試產品乃供應商所提供及確認 :

產品名稱 : PVC硬質膠布  
收件日期 : 2005/06/09  
測試日期 : 2005/06/09 TO 2005/06/16

測試差異 : - 請見下一頁 -

  
Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

The content of this PDF file is in accordance with the original issued reports for reference only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.

SGS Taiwan Ltd. No. 126-1, Wu Hsing Road, Wuhsia Industrial Zone, Taipei County, Taiwan. (886-2) 299-3287 www.sgs.com.tw



Test Report

To: 木口洋行小姐

From: 汎平

報告號碼: CE/2005/62169A

日期: 2005/06/16

頁數: 2 of 4

測試結果

測試部位 NO.1 : 透明膠片(請參照附件圖片)

測試項目:	單位	測試方法	偵測極限值	結果
一溴聯苯	%	本測試參考USEPA3540C 或 USEPA3550C方法, 以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極電陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.
二溴聯苯	%		0.0005	N.D.
三溴聯苯	%		0.0005	N.D.
四溴聯苯	%		0.0005	N.D.
五溴聯苯	%		0.0005	N.D.
六溴聯苯	%		0.0005	N.D.
七溴聯苯	%		0.0005	N.D.
八溴聯苯	%		0.0005	N.D.
九溴聯苯	%		0.0005	N.D.
十溴聯苯	%		0.0005	N.D.
多溴聯苯(PBBs)/以上總和	%		0.0005	N.D.
一溴聯苯醚	%	本測試參考USEPA3540C 或 USEPA3550C方法, 以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極電陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.
二溴聯苯醚	%		0.0005	N.D.
三溴聯苯醚	%		0.0005	N.D.
四溴聯苯醚	%		0.0005	N.D.
五溴聯苯醚	%		0.0005	N.D.
六溴聯苯醚	%		0.0005	N.D.
七溴聯苯醚	%		0.0005	N.D.
八溴聯苯醚	%		0.0005	N.D.
九溴聯苯醚	%		0.0005	N.D.
十溴聯苯醚	%		0.0005	N.D.
多溴聯苯醚(PBDEs)/以上總和	%		0.0005	N.D.

The content of this PDF file is in accordance with the original issued reports for reference only. This Test Report cannot be reproduced, except in full, without our written permission of the Company.

SGS Test Lab (Taipei) | NO. 126-1, Wu Kang Road, Waka Industrial Zone, Taipei County, Taiwan. | TEL: 886-2-2708-1990 / 886-2-2708-2227

0002666 00

0002666 00



To 李品儀小姐

From: 洪偉

**Test Report**

報告號碼: CE/2001  
 日期: 2005/04  
 頁數: 3 of 4

測試項目:	單位	測試方法	偵測極限值	結果
六價鉻	ppm	依照US EPA 3060A方法,用UV-VIS做分析	2	N.D.
鎘	ppm	依照 EN1122 方法B:2001或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.
汞	ppm	依照 US EPA 3052 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.
鉛	ppm	依照 US EPA 3050B 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.

- 備註: (1) N.D. = Not detected. (<MDL) / 未檢出 (低於偵測極限值)  
 (2) ppm = mg/kg / 百萬分之一  
 (3) MDL = Method Detection Limit (偵測極限值)  
 (4) "-" = Not Regulation / 無規限值

The content of this report is in accordance with the original issued reports for reference only. This Test Report cannot be reproduced, etc without prior written permission of the Company.

# Test Report

藝祺有限公司  
彰化縣埔鹽鄉彰水路一段107號

報告號碼 : CE/2005/95071  
日期 : 2005/09/30  
頁數 : 1 of 2

以下測試樣品乃供應廠商所提供及確認：


樣品名稱 : SAE1215 SERIES  
收件日期 : 2005/09/23.  
測試日期 : 2005/09/23 TO 2005/09/30

## 測試結果

測試部位 NO.1 : 鐵灰色金屬(請參照附件圖片)

測試項目：	單位	測試方法	偵測極限值	結果
				NO.1
六價鉻	ppm	依照US EPA 3060A方法, 用UV-VIS 做分析	2	N.D.
鎘	ppm	依照 EN1122 方法B:2001或其他酸 消化方法,用感應耦合電漿原子發 射光譜儀(ICP-AES)做分析	2	N.D.
汞	ppm	依照 US EPA 3052 方法或其他酸 消化方法,用感應耦合電漿原子發 射光譜儀(ICP-AES)做分析	2	N.D.
鉛	ppm	依照 US EPA 3050B 方法或其他酸 消化方法,用感應耦合電漿原子發 射光譜儀(ICP-AES)做分析	2	15.3

備註：(1) N.D. = Not detected.(<MDL) / 未檢出(低於偵測極限值)  
(2) ppm = mg/kg / 百萬分之一  
(3) MDL= Method Detection Limit(偵測極限值)

  
Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.



## Test Report

藝祺有限公司  
彰化縣埔鹽鄉彰水路一段107號

報告號碼 : CE/2005/95071  
日期 : 2005/09/30  
頁數 : 2 of 2



**SC102**

## HEAT-TRANSFER COMPOUND

SC102 heat-transfer compound is a grease like silicone material heavily filled with heat-conductive metal oxide.

SC102 heat-transfer compound is an improved product that can be used in touch with silicone JCR, where most of silicone heat-transfer compounds cause swelling of JCR. SC102 also shows excellent heat conductivity as well very little oil bleed. SC102 has rather high consistency and it is easy to handle and can be used in many appliances.

**Properties of SC102**

Properties	Unit	SC102
Consistency, penetration un-worked	--	300
Oil bleed (120°C / 24hrs)	%	0.00
Specific Gravity	--	2.45
Thermal Conductivity	Cal / cm <sup>2</sup> sec. C	0.0019
Arc Resistance	sec.	123
Dielectric Constant 60 Hz	--	4.6
1000 Hz	--	4.4
Dissipation Factor 60 HZ	--	0.034
1000 HZ	--	0.024
Volume Resistivity	ohm · cm	4.8 x 10 <sup>14</sup>
Dielectric Strength	kV / 2.5mm	22



## Properties of SC102 in comparison with SH340

Properties	SC102	SH340 <sup>a)</sup>
Swelling of Silicone JCR <sup>b)</sup> Volume increase	0.9%	3.0%
Oil bleed on aluminum plate 120°C / 24hrs	None	observed
Appearance after heating 150°C / 24hrs	No change	No change

a) Conventional silicone heat-transfer compound

b) Cured silicone JCR (SH6101) was immersed in heat-transfer compound at 120°C for 120hrs.

---

### Dow Corning Toray Silicone Co., Ltd.

AIG Bldg. 1-3, Marunouchi 1-chome, chiyoda-ku

Tokyo 100-0005, Japan

TEL: 03-3287 8300

**IMPORTANT NOTICE** :Dow Corning Toray Silicone neither represents nor tests this material for medical device applications or for pharmaceutical end-use.

**NOT FOR HUMAN INJECTION !**

This product is made to industrial grade standards. It is not intended for nor should it be used in medical device applications and pharmaceutical end-use.

# Test Report

SIL-MORE INDUSTRIAL LTD.  
16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY,  
TAIPEI COUNTY, TAIWAN, R. O. C.

Report No. : CE/2005/81840  
Date : 2005/08/15  
Page : 1 of 4

**The following merchandise was (were) submitted and identified by the client as :**

Type of Product : DOW CORNING TORAY SC102 HEAT SINK COMPOUND  
Sample Received : 2005/08/09  
Testing Date : 2005/08/09 TO 2005/08/15

=====  
**Test Result** : - Please see the next page -

  
Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.



# Test Report

SIL-MORE INDUSTRIAL LTD.  
16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY,  
TAIPEI COUNTY, TAIWAN, R. O. C.

Report No. : CE/2005/81840  
Date : 2005/08/15  
Page : 2 of 4

## Test Result

PART NAME NO.1 : WHITE COLLOID (PLEASE REFER TO THE PHOTO ATTACHED)

Test Item (s):	Unit	Method	MDL	Result
				No.1
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
Dibromobiphenyl	%		0.0005	N.D.
Tribromobiphenyl	%		0.0005	N.D.
Tetrabromobiphenyl	%		0.0005	N.D.
Pentabromobiphenyl	%		0.0005	N.D.
Hexabromobiphenyl	%		0.0005	N.D.
Heptabromobiphenyl	%		0.0005	N.D.
Octabromobiphenyl	%		0.0005	N.D.
Nonabromobiphenyl	%		0.0005	N.D.
Decabromobiphenyl	%		0.0005	N.D.
<b>Total PBBs(Polybrominated biphenyls)/ Sum of above</b>	%		-	N.D.
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
Dibromobiphenyl ether	%		0.0005	N.D.
Tribromobiphenyl ether	%		0.0005	N.D.
Tetrabromobiphenyl ether	%		0.0005	N.D.
Pentabromobiphenyl ether	%		0.0005	N.D.
Hexabromobiphenyl ether	%		0.0005	N.D.
Heptabromobiphenyl ether	%		0.0005	N.D.
Octabromobiphenyl ether	%		0.0005	N.D.
Nonabromobiphenyl ether	%		0.0005	N.D.
Decabromobiphenyl ether	%		0.0005	N.D.
<b>Total PBBEs(PBDEs)(Polybrominated biphenyl ethers)/Sum of above</b>	%		-	N.D.

# Test Report

SIL-MORE INDUSTRIAL LTD.  
16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY,  
TAIPEI COUNTY, TAIWAN, R. O. C.

Report No. : CE/2005/81840  
Date : 2005/08/15  
Page : 3 of 4

Test Item (s):	Unit	Method	MDL	Result
				No. 1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.

NOTE: (1) N.D. = Not detected (<MDL)  
(2) ppm = mg/kg  
(3) MDL = Method Detection Limit  
(4) " - " = No Regulation



## Test Report

SIL-MORE INDUSTRIAL LTD.  
16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY,  
TAIPEI COUNTY, TAIWAN, R. O. C.

Report No. : CE/2005/81840  
Date : 2005/08/15  
Page : 4 of 4

