JZC822A-A

Material

Fan

Rate Voltage

Rate Current

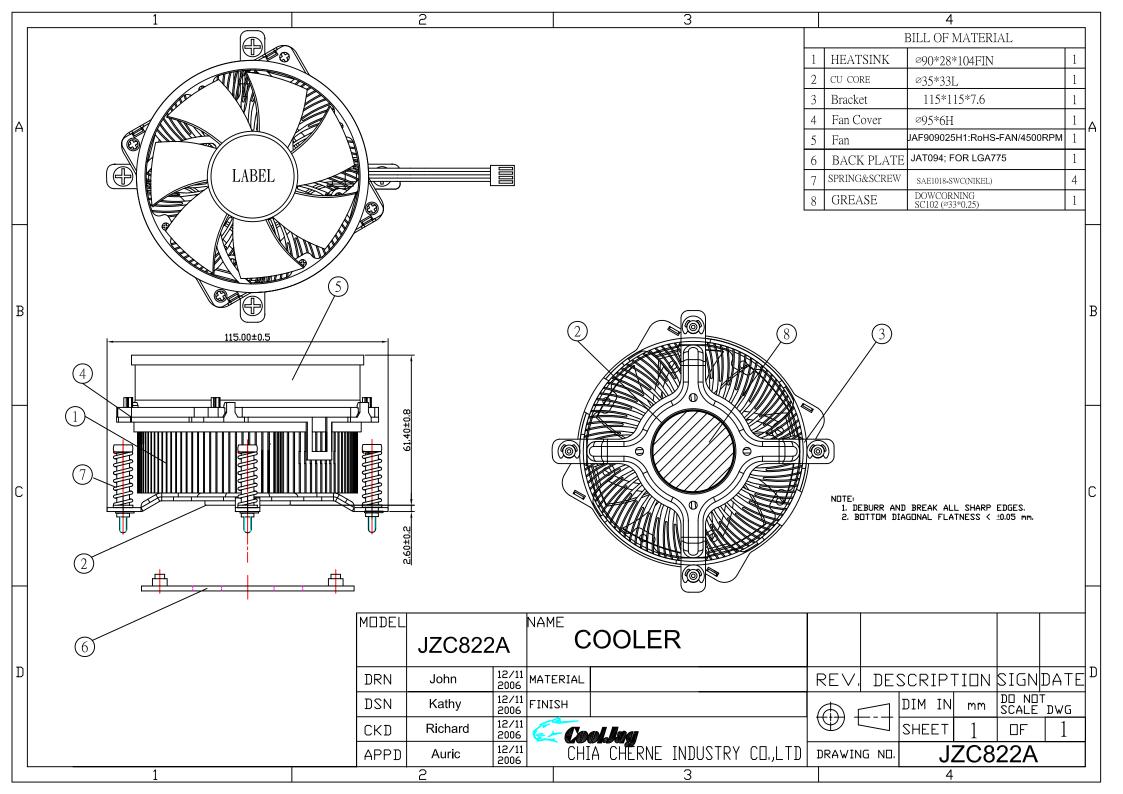
Rate Speed



12V

0.55A

4500 RPM \pm 10%



TYPE MODEL NO. PAGE:
DC BRUSHLESS FAN F129025BU AF 10F5

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 2.18m³/min DUTY CYCLE = 0%~20% 16.57CFM 0.47m³/min	AT RATED VOLTAGE AT ZERO STATIC PRESSURE
2-7	STATIC PRESSURE	DUTY CYCLE =100% 8.30 mmH ₂ O DUTY CYCLE =0%~20% 0.40 mmH ₂ 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 1m MICROPHONE FAN

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

TYPE		MODEL NO.	PAGE:		
DC F	BRUSHLESS FAN	F129025B	UAF	2 OF5	
	OPERATING	-10 ~70			
	TEMPERATURE	(NORMAL HUMIDITY)			
2-11	STORAGE	-20 ~75			
	TEMPERATURE	(NORMAL HUMIDITY)			
	DIRECTION OF	CLOCKWISE FROM			
	ROTATION	LABEL SIDE			
	DIRECTION OF AIRFLOW	LABEL SIDE DISCHARGE			
2-14	INSULATION	10 MEG OHM MIN.	AT 500 VDC		
	STRENGTH		(BETWEEN FRA	ME AND (+) TERMINAL)	
2-15	DIELECTRIC	MUST WITHSTAND	MAX 1mA BETW	/EEN FRAME AND	
	STRENGTH	500 VAC 1min	LEADS		
2-16	PROTECTION	CURRENT LIMIT			
2-17	DROP TEST	IN MINIMUM PACKAGING			
		ONE DROP OF THREE F			
		ON TO TOMM THICKNES	22 OF MOODEN E	SUARD.	
2-18	MECHANICAL SHOC	K TEMPERATURE	: +25°c.		
2 10		ORIENTATION	: X , Y , Z .		
		POWER	: NON-OPERAT	ING	
		ACCELERATION	: 20G MIN.	1110.	
		PULSE	: 11 MS HALF-S	SINE WAVE.	
		NUMBER OF SHOCKS		OR EACH DIRECTION.	

NOTE 1. THE ABOVE STANDARD SHOULD BE THE SPECIFIED VALUE AT NORMAL TEMPERATURE (25) AND NORMAL HUMIDITY (60~65%) UNLESS OTHERWISE NOTICED.

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

TYPE MODEL NO.
DC BRUSHLESS FAN F129025BU AF PAGE:
30F 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.

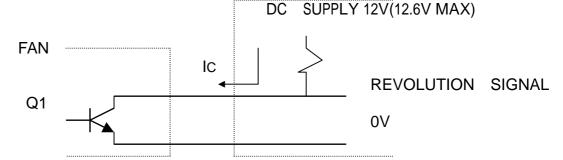
	APPROVAL	CHECK	DESIGN
EVERFLOW PRECISION ELECTRON CO., LTD	LIU CHUN	LIANG HAI	HAI YING
	XIANG	HU	YANG
	2006/07/11	2006/07/11	2006/07/11

TYPE MODEL NO. PAGE:
DC BRUSHLESS FAN F129025BU AF 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 IC = 10mA MAX.

TRANSISTOR Q1 AT "OFF" POSITION

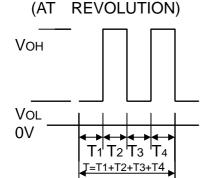
RELEASE VOLTAGE

Ic = 10 mA MAX.Vol= 0.5V MAX.

VOH = 12V(12.6V MAX)

7-2 OUTPUT WAVEFORM

(ACCORDING TO INPUT VOT.)



(AT LOCKED POSITION)

Vон

Vol. 0V

REMARK: AT LOCKED POSITION, OUTPUT BECOMES VOH OR VOL

T=T1+T2+T3+T4=60/N (SEC) N: FAN SPEED (r.p.m)

DUTY=
$$\frac{T1}{T_1+T_2} = 50\pm10\%$$

FAN 1 TURN

	APPROVAL	CHECK	DESIGN	
EVERFLOW		I IANG HAI	HAI YING YANG	
PRECISION ELECTRON CO., LTD	LIU CHUN XIANG	HU	HAI TING TANG	
	2006/07/11	2006/07/11	2006/07/11	

<u> </u>	SPECIFICATION	<u>1S</u>
TYPE	MODEL NO.	PAGE:
DC BRUSHLESS FAN	F129025BU AF	5 OF 5
7-3 PWM CONTROL MAXIMUM VOL		0.8VDC 2.0VDC /DC

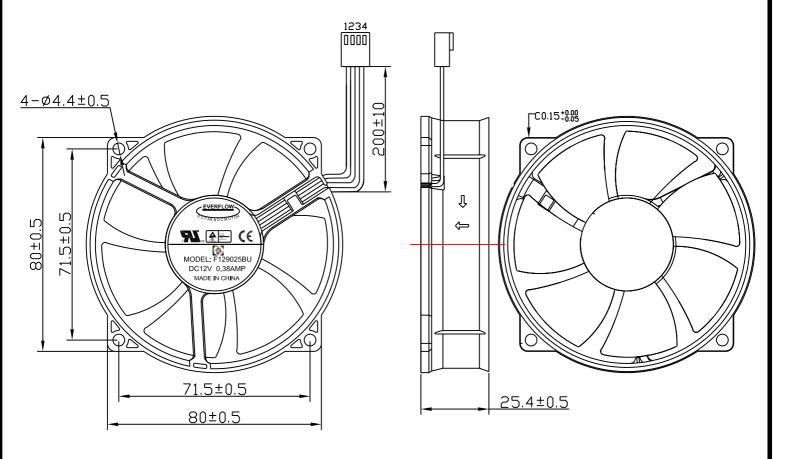
EVERFLOW	APPROVAL	CHECK	DESIGN
PRECISION ELECTRON CO., LTD	LIU CHUN XIANG 2006/07/11	HU 2006/07/11	HAI YING YANG 2006/07/11

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.

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





NOTES:

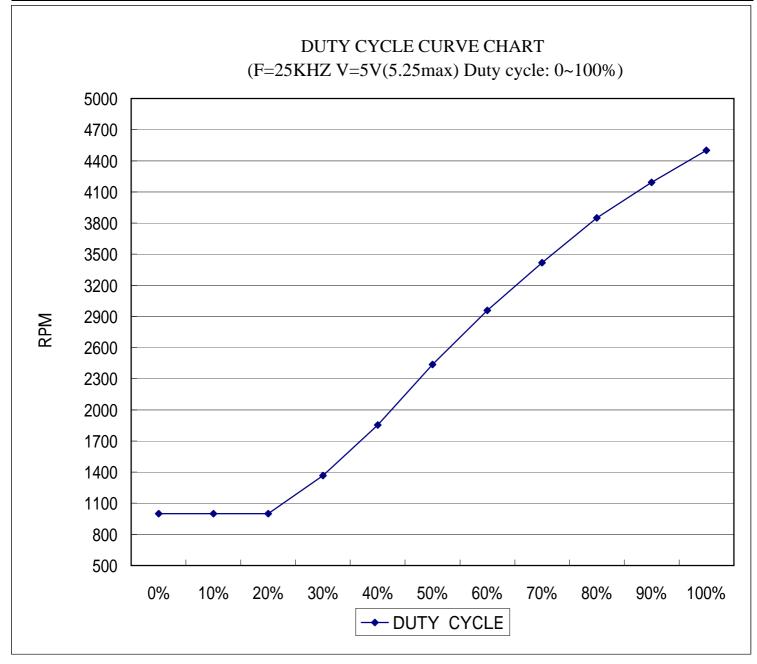
1. LEAD WIRE UL 1430 #26AWG OR EQUIVALENT

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		M	ODEL	,			T11	20025	DII	AF6A5bR
			N(Э.			-	ГΙΔ	29023.	DU	AFOAJOK	
APPROVE	LIU CHUN XIAN	G 2006/07/11] PA	ART		DC FAN		NT			
CHECK	LIANG HAI HU	2006/07/11		N	AME				AN			
DRAWING	HAI YING YANG	2006/07/11	X		AWINO ME	Ĵ	OUTLINE		E			
EVERFLOW PRECISION ELECTRON CO. ,LTD.			CODE		E	$\left \overline{T} \right $		0	0	1		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





WHOLE WELL CO., LTD. Report No. : CE/2006/61679

NO. 48, LANE 203 SEC 2, HSING-LONG ROAD, TAIPEI, Date : 2006/06/19

TAIWAN. 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 NoSample ReceivedSOT-232006/6/6

<u>Testing Date</u> : 2006/6/6 TO 2006/06/19

Test Result

PART NAME NO.1 : MIXED ALL PARTS

Took Home (a)	TImit	Mathad	MDL	Result
Test Item (s):	Unit	Method	MDL	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 Yen, M.R. / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.



WHOLE WELL CO., LTD.

NO. 48, LANE 203 SEC 2, HSING-LONG ROAD, TAIPEI,

TAIWAN.

Report No. : CE/2006/61679

: 2006/06/19 Date

: 2 of 2 Page





SANYO SEMICONDUCTOR TAIPEI CO., LTD. Report No. : CE/2006/80268

116 6F., NO. 101, SONGREN RD., SINYI DISTRICT, TAIPEI Date : 2006/08/08

CITY 110, TAIWAN 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) -

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

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SANYO SEMICONDUCTOR TAIPEI CO., LTD. Report No. : CE/2006/80268

116 6F., NO. 101, SONGREN RD., SINYI DISTRICT, TAIPEI Date : 2006/08/08

CITY 110, TAIWAN Page : 2 of 4

Test Result(s)

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

(Do at Thomas (a))	TT \$4	B# -41 J	MDI	Res	sult
Test Item (s):	Unit	Method	MDL	No.1	No.2
PBBs (Polybrominated					
biphenyls)					
Monobromobiphenyl			5	N.D.	N.D.
Dibromobiphenyl			5	N.D.	N.D.
Tribromobiphenyl	Ī		5	N.D.	N.D.
Tetrabromobiphenyl		TTT:/1 C	5	N.D.	N.D.
Pentabromobiphenyl		With reference to	5	N.D.	N.D.
Hexabromobiphenyl	/17	USEPA3540C, Analysis was	5	N.D.	N.D.
Heptabromobiphenyl	mg/Kg	performed by GC/MS and screening via USEPA	5	N.D.	N.D.
Octabromobiphenyl	(ppm)	3550C with	5	N.D.	N.D.
Nonabromobiphenyl	I	HPLC/DAD/MS	5	N.D.	N.D.
Decabromobiphenyl		III De/ BRB/ Mo	5	N.D.	N.D.
Total PBBs	Ī		-	N.D.	N.D.
(Polybrominated					
biphenyls)/Sum of above					
PBBEs(PBDEs)					
(Polybrominated biphenyl					
ethers)					
Monobromobiphenyl ether			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	Ī		5	N.D.	N.D.
Hexabromobiphenyl ether		With reference to	5	N.D.	N.D.
Heptabromobiphenyl ether	Ī	USEPA3540C, Analysis was	5	N.D.	N.D.
Octabromobiphenyl ether	mg/Kg	performed by GC/MS and	5	N.D.	N.D.
Nonabromobiphenyl ether	(ppm)	screening via USEPA	5	N.D.	N.D.
Decabromobiphenyl ether		3550C with	5	N.D.	N.D.
Total PBBEs(PBDEs)	Ī	HPLC/DAD/MS	-	N.D.	N.D.
(Polybrominated biphenyl					
ethers)/Sum of above					
Total of Mono to Nona-			-	N.D.	N.D.
brominated biphenyl					
ether. (Note 4)					

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SANYO SEMICONDUCTOR TAIPEI CO., LTD. Report No. : CE/2006/80268

116 6F., NO. 101, SONGREN RD., SINYI DISTRICT, TAIPEI Date : 2006/08/08

CITY 110, TAIWAN Page : 3 of 4

Took Itom (a)	TTm:4	Wath a d	MDI	Re	sult
Test Item (s):	Unit	Method	MDL	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)	<i>U, U</i>	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⁺⁶ and PBBs/PBDEs.



SANYO SEMICONDUCTOR TAIPEI CO., LTD. Report No. : CE/2006/80268

116 6F., NO. 101, SONGREN RD., SINYI DISTRICT, TAIPEI Date : 2006/08/08

CITY 110, TAIWAN

Page : 4 of 4





** End of Report **



TSUEN JYI ENTERPRISE CO., LTD.

2F., NO. 501-17, JHONGJHENG RD., SINDIAN CITY,

TAIPEI COUNTY 231, TAIWAN

Report No. : CE, 2006/30186

Date

: 2005/03/08

Page

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.

OSK5, SK7

Buver/Order No

TSUEN JYI ENTI: RPRISE 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

	-	the state of the s	2477	Result	Limit of	
Test Item (s):	Unit	Method	MDL	No.1	ROHS	
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 i3:2001, 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

reh, M.R. Poperation Manager

Signed for and on behalf of SGS TAIWAN LTD.

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SOS TAWARDINITED

NO. 138-1, Wu Kung Road, Wuku Indudrial Zone, Tabel County, "lewelt 1886-70 22903939 (1885-3) 2289-3237 www.eps.combe



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?



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SOB TANWAN CHATTED

NO. 135-1, Welkung Road, Welks streethal Zone, Taipel count, Taiwan. 1 (1986-2) 2799-3939 (366-2) 2799-3237 | www.sgs.com.tv



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 COMFANY 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 3iphenyls), 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 - Beiling-water-

(3) With reference to EPA 3540C / 3550C, Analysis was performed by GC/M\$.

Results

: Please refer to next page.

Signed for and on behalf of SGS-CSTC Ltd.

Zhang Li, Amy Sr. Engineer

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www.cn.ags.com



No.: GZ0603023198/CHEM

Date: MAR 08, 2006

Fage 2 of 2

Results:

(1)

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

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

- ppm = mg/kg

(2)

Lt-g ay metal sheet

Lt-cray metal sheet

N.D.

N.D.

Negative

Hexavalent Chromium Content [Cr(VI)]

Note: - Negative means the concentration of Hexavalent Chromi im extracted from 50cm2 sample is less than the detection limit.

- Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50cm2 sample surface area by boiling-water-extraction method

(3)	Lt gray metal sheet	
Flame Retardants		
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	ND	
Dibromobiphenyl .	ND	1/2
Tribromobiphenyl	ND	
Tetrabromobiphenyl	ND	
Pentabromobiphenyl	ND	
Hexabromobiphenyl	ND	
Heptabromobiphenyl	ND	
Octabromobiphenyl	ND	
Nonabromodiphenyl	ND	FIN
Decabromodiphenyl	ND	
Polybrominated Diphenylethers (PBDEs)		
Monobromodiphenyl ether	ND .	
Dibromodiphenyl ether	ND	
Tribromodiphenyl ether	ND	
Tetrabromodiphenyl ether	ND	- 1
Pentabromodiphenyl ether	, ND	
Hexabromodiphenyl ether	. ND	
Heptabromodiphenyl ether	ND	
Octabromodiphenyl ether	ND	1
Nonabromodiphenyl ether	ND	
Decabromodiphenyl ether	ND	

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

- ppm = mg/kg

*** End of Report ***



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SGS

Test Report

No.: G20502014292/CHEM

Date: FEB 21, 2008

Page 1 of 2

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

Report on the submitted sample said to be MAGNET WIRE

5G\$ Ref No.

57060204589R\$

Main Substance

制。连路波

Sample Receiving Date

. FEB 15, 2006

Testing Period

: FEB 15, 2006 TO FEB 21, 2006

Lest 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 Diphonylethers) of the submitted sample.

Test Method

(1) Load 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

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GZCM 465601

SGS

Test Report

No GZ0502014292/CHEM

Date: FEB 21, 2006

Page 2 of 2

Results

141 Lead Content (Pb) Cadmirum Content (Cd) Mercury Cantent (Hg)

3 N.D. N.D.

Coppery metal wire

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

(2)

Coppery metal wire

Hexavalent Chromium [Cr(VI)]

Negativo

Note: - Negative means the concentration of Hexavalent Chromium extracted from 50cm2 sample is less than the detection limit.

Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50cm² sample

surface area by boiling-water-extraction method

(3)	Coppery metal wire		
lame Retardants			
Polybrominated Biphenyls (PBBs)	17712		
Monobraniobiphenyl	ND		
Dibromobiphenyl	ND ND		
Fribromobiphenyl	ND		
etrabromobipheny!	ND		
Pentabromobiphienyl	ND		
fexabramobiphenyl	ND		
reptabromobiphenyl	ND ,		
Octobromobiphenyl	ND		
Nonebromodiphenyl	ND		
Decabromodiphenyl	ND		
Polybrominated Diphenylethers (PBDEs)			
Manobromodiphenyl other	ND		
	ND -		
Dibromodiphenyl ether	ND		
Tribromodiphenyl ether	ND		
etrabromodiphenyl other	ND		
Pentabromodiphenyl other	ND		
Hexabromodiphenyl other	ND		
Heptabromodiphenyl ether	ND ND		
Octabromadiphenyl ether	ND ND		
Nonabromodiphenyl ether	ND ND		
Denabromodiphenyl ether	NU		

Note: - N.D. - Not Delected (< 5 ppm)

ppm = mg/kg

*** End of Report ***

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GZCM 465600

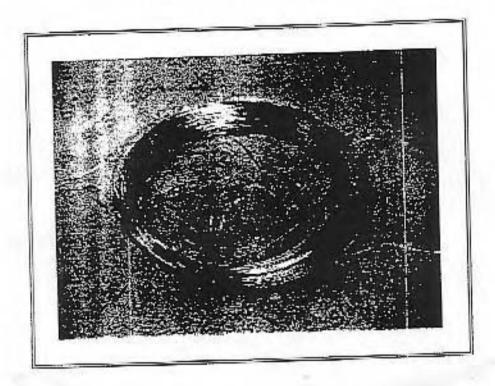


No: GZ0502014292/CHEM

Date: FEB 21, 2006

Page 1 of 1

PHOTO APPENDIX



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Huang Fang, Sunny Sr. Engineer

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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

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

THE VERTERS OF T

this is the

255 Timeric

- Please see the next page -

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

ioned for and on behalf of SGS TAIWAN LTD.

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Survey Report

KOAN HAO ENTERPRISE CO., LTD.

29, GUNG YE RD, NANKANG IND. PARK, NANTOU,

TAIWAN R. O. C.

Report No. : CS/2006/30208

: 2006/04/06

Page

: 2 of 4

PART NAME NO.1

SILVER/BRIGHT SILVER COLORED PLASTIC

PILM(CV/2006/30125)

PART NAME NO.2

TRANSPARENT GLUE(CE/2006/24996)

resing project them in the	Unit	Wathed	MEDI	Result	
Test Item (s):	INTERNAL DE LA COMPANION DE LA		MIDL	No.1	No.2
Monobromobiphenyl	96		0.0005	N.D.	N.D.
Dibromobiphenyl	96		0.0005	N.D.	N.D.
Tribromobiphenyl	%		0.0005	N.D.	N.D.
Tetrabromobiphenyl	%	USEPA3540C or	0.0005	N.D.	N.D.
Pentabromobiphenyl	%	USEPA3550C. Analysis was	0.0005	N.D.	N.D.
Hexabromobiphenyl	%	performed by HPLC/DAD,	0.0005	N.D.	N.D.
Heptabromobiphenyl	%	LC/MS or GC/MS.	0.0005	N.D.	N.D.
Octabromobiphenyl	%	(prohibited by 2002/95/EC	0.0005	N.D.	N.D.
Nonabromobiphenyl	%	76/769/EEC)	0.0005	N.D.	N.D.
Decabromobiphenyl	96		0.0005	N.D.	N.D.
Total PBBs (Polybrominated hiphenyla)/Sum of above	96		-	N.D.	N.D.
Monobromobiphenyl ether	96	PH)	0.0005	N.D.	N.D.
Dibromobiphenyl ether	%	(pt	0.0005	N.D.	N.D.
Tribromobiphenyl other	%		0.0005	N.D.	N.D.
Tetrabromobiphenyl ether	%		0.0005	N.D.	N.D.
Pentabromobiphenyl ether	96		0.0005	N.D.	N.D.
Hexabromobiphenyl ether	%	USEPA3540C or	0.0005	N.D.	N.D.
Heptabromobiphenyl ether	%	USEPA3550C, Analysis was performed by HPLC/DAD,	0.0005	N.D.	N.D.
Octabromobiphenyl ether	%	LC/MS or GC/MS.	0.0005	N.D.	N.D.
Nonabromobiphenyl ether	%		0.0005	N.D.	N.D.
Decabromobiphenyl ether	96		0.0005	N.D.	N.D.
Point PBERs(PBDRs) Polybrominated hiphenyl others(/ Sum of above	%	76/769/EEC)	-	N.D.	N.D.
rotal of Mono to Hone- ecominated bipbenyl ether. Note 5)	%		e e	N.D.	N.D.

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Survey Report

KOAN HAO ENTERPRISE CO., LTD. 29, GUNG YE RD, NANKANG IND. PARK, NANTOU,

TAIWAN R. O. C.

Report No. : CS/2006/30208

: 2006/04/06 Date

: 3 of 4 Page

PRODUCTION OF THE PROPERTY OF	2505.15			Ren	nult
Test Item (s):	Unit	Method	MDL -	No.1	No.2
Chromium VI (Cr+6)		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

author of Property

(3) MDL - Method Detection Limit

(4) " - " " Not Regulation

(5) " --- " - Not Applicable

(6) Decabromodiphenyl ether (DecaBDE) in polymeric applications is exempted Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC under document 2005/717/EC.

(7) PBBRs-PBDRs-Polybrominated Diphenyl Ethers-PBDOs-PBBOs.

SGS

Survey Report

reduce and appear

KOAN HAO ENTERPRISE CO., LTD. 29, GUNG YE RD, NANKANG IND. PARK, NANTOU,

TAIWAN R. O. C.

Report No. : CS/2006/30208

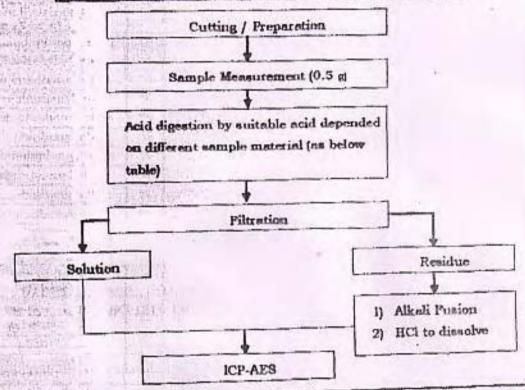
Date : 2006/04/06

Pege :4 of 4

 These samples were dissolved totally by pre-conditioning method according to below flow chart.

- 2) Name of the person who made measurement: Anren Lee
- 3) Name of the person in charge of measurement: Deniel Yeh

Method I: Flow Chart of Dissertion for heavy metal analysis



Steel, copper, aluminum, solder	Agua regia, HNO3, HCl, HF, H2O2
Glass	HNO ₅ /HF
Gold, platinum, palladium, ceramic	Aque regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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No.: GZ0605070392/CHEM -

Date: MAY 23, 2006

Page 1 of 2

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

Report on the submitted sample said to be BARE COPPER WIRE (获明线)

SGS Rel No.

: SZ060523401RS-5.1

Sample Receiving Date

: MAY 17, 2008

Testing Period

: MAY 17, 2005 TO MAY 23, 2006

Test Requested

: (1) As specified by client, to determine the Lead, Cadmium & Marcury 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.

Artalysis 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 Gr. Engineer Tubol Canasi MP

Tubol

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No.: GZ0605070392/CHEM

Date: MAY 23, 2006

Page 2 of 2

Results:

(1)

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

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

Coppery metal wire

N.D.

N.D.

N.O.

(2)

Coppery metal wire

Hexavelent Chromium Content [Cr[VI)]

Negative

Note: - Negative means the concentration of Hexavalent Chromium extracted from 50cm2 sample is less than the detection Emit.

 Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50cm² sample surface area by boiling-water-extraction method

*** End of Report ***



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GZCM 689535

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拂古龙电

TEST REPORT

REPORT NO.KA/2006/61881 DATE: 2006/6/28 PAGE: 1 OF 1

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

CLIENZ

: EVER CONNECTOR INDUSTRIAL CO..LTD.

PRODUCT DESCRIPTION

: TERMINAL (PHOSPHOR ERCNZE).

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 DETAINED.

RESULT MOL METHOD UNIT TEST ITEM(S) CP-AES after reference to EN 1122 2001 or 2 2.4. ppm other sold digestion. Cadmium (Cd) UV-VIS(US EPA 7195A) after reference to US 7.4. 2 ppm EPA 308CA Chromium VI (Cr+6) ICP-AES after reference to US EPA 3052 or 2 n.d. spm other add digestion Mercury (Hg) ICP-AES after reference to US EPA 30508 or 22.8 2 pom other acid digestion. Lead (Ph) PBBs(Polybrominated bighenyls) n.d 0.0005 44 n.d. 0.0005 Monobromobiohenvi 94 n.d. 0005 Dibromobiohenvi With reference to USEPA3540C or eV. n.d. 0.0005 Triargmodisheny 4. USEPA3550C, Analysis was performed by 0.0005 n.d. Tetrabromopioheny HPLC/DAD, LC/MS or GC/MS. (prohibited by 0.0005 n.d Pentabromobiohenyl 36 2002/95/EC (RohS), 83/264/EEC, and 0,0006 Hexapromogrameryl TB/TES/EEC) hectabromobiohenv 75 n.d 0.0005 Octabromobichenvi 24 n.d. 0.0005 Nonapremedionary 16 Decapromicolphenyl PECEs(Polybrominated biphenyl 0.0006 a.d. ethers) 0.0005 n.d. Mencoremebiohenyl einer 9.4 Dicromodighenyl ether 7//bromodighenyl ether 0.0005 96 With reference to USEPA35400 or 0.0005 n.a 9/4 USEPA355CC. Analysis was performed by 0.0 Tetraoromobionenyi ether 0.0006 HPLC/DAD, LC/MS or GC/MS. (pron/bited by % n.d. Fentabromopiphenyl einer 0.0000 2002/95/EC (RoHS), 83/264/EEC, and 0.0005 3.0. Hexapromobionenvi etner 20 Heotspromobiohenyl actor 78/769/EEC) 0.0005 n.d. 96 Octabromobiohenyl ether n.d 0.0005 0.5 Nonapromociphenyl ether 2% Decapromobionenyl ether

NOTE: (1) n.c. = nct detected

(2) ppm = mg/kg

(3) MDL * Method Detection Limit

(4) Any unauthorized alteration, forgery or faisification of the content or appearance of this report is unlawful and offenders, may be prosecuted. Sh T F to the fullest extent of the law.

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

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Report No.:SZR06040511555

Date: Apr. 20, 2006

Page 1 of 4

: DONGGUANGUNEETALWIRE & 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

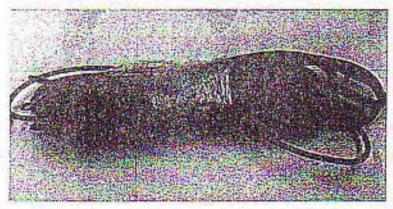
Completed Date

: 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 Roll

5F., Huaqiang logistics, Longzhú Road, Nanshan, Shenzhen, China Tel:86-755-33307999 Fax:86-755-33307988 1F., Building C, Hongwei Industrial zone, Beoan 70 district, Shenzhen, China Tel:86-755-29799666 Fax:86-755-29799699 E-mail:info@cti-cert.com http://www.cti-cert.com

Report No.:SZR06040511555

Date:Apr. 20, 2006

Page 2 of 4

电线

No.	Çomponent	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	
Diements	1	2	3
Lead	N.D.	N.D.	3ррт
Mercury	N.D.	N.D.	N.D.
Cadmium	N.D.	N.D.	N.D.
Hexavalent Chromium	N.D.	N.D.	N.D.
Chromium	+ 1	N.D.	1





Report No.:SZR06040511555

Date:Apr. 20, 2006

Page 3 of 4

Test Results:

Organic Compounds

Polybrominated Biphenyls(PBBs)

Commounds	Cor	itents
Compounds	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)

C	Con	tents
Compounds	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. MESTING

Report No.:SZR06040511555

Date: Apr. 20, 2006

Page 4 of 4

Note: -N.D. = Not Detected (<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

Sandy

Approved by Ja

army

Inspected by

Position

Manager

Date

Apr. 20, 2006

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CTI Physical & Chemical Lab.







No. 2049989/EC

Date: Jan 17 2006

Page 1 of 2

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

Report on the submitted sample said to be GREEN PVC.

SGS Job No.

1960392

SGS Ref. No.

SZECO050100910RS-3.2

Sample Receiving Date

JAN 10 2006

Testing Period

JAN 10 - 16 2006

Test Requested : With reference to RoHS Directive 2002/95/EC

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. Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated 5) diphenylethers) of the submitted sample.

Test Method

With reference to BS EN 1122:2001, Method B, analysis was performed by : 1) Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).

With reference to EPA Method 3050B/ 3051/ 3052 Analysis was performed by Inductively Coupled Argon Plaşma-Atomic, Emission 3)

With reference to EPA Method 3051/3052. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission

41 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)

With reference to EPA Method 3540C/ 3550C. Analysis was performed by

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 Hang Kong Ltd

Wan Chi Wai, Leo Technical Manager

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SZE 131771

Date: Jan 17 2006

Page 2 of 2

Test Results

Test Item Cadmium (Cd) Lead (Pb) Mercury (Hg) Hexavalent Chromium (Cr et)	Green Plastic ND ND ND ND	Detection Limit 2 ppm 2 ppm 2 ppm 2 ppm 2 ppm	Limit 100 ppm 1000 ppm 1000 ppm 1000 ppm
(Parulta abay		1000	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

Flame Retardants	Green Plastic	Datastianti	
Polybrominated Biphenyls .	The second second second	Detection Limit	Limit
(Mono - Deca)	NO	50 ppm *	Conn
Monobromobiphenyl	NÖ		1000 ppr
Dibromobiphenyl		5 ppm	-
Tribromobiphenyl:	ND	5 ppm	
Tetrabromobiphenyl	ND	5 ppm	\
Pentabromobiphenyl	ND	. 5 ppm	N 2
Hexabromobipheny/	ND	- 5 ppm	
Heptabromobiphenyl	ND	5 ppm	-
Octabromoblphenyl	- ND	5 ppm	- "
Nonabromobiphenyl	ND T	5 ppm	
Decabromob/pheny!	ND	5 ppm	**
Polybrominated Diphenylethers	DN	5 ppm	**
Mono - Nona)	3.10	3	
1anobromodiphenyl ether	ND	45 ppm	1000 ppm -
intermediate distribution of the control of the con	ND		1994 Phill .
ibromodiphenyl ether		5 ppm	.44
ribromodiphenyl ether	ND.	5 ppm	-
etrabromodipheriyl ether-	ND I	5 ppm	
entabromodiphenyl ether	ND	5 ppm	
exabromodiphenyl ether	ND	5 ppm	**
Dtabromodiphenyl ether	The second secon	5 ррт	-
tabromodiohenvi ether	ND	5 ppm	- No.
nabromodiphenyl ether	ND	5 ppm	-
cabromodiphenyl ether*	ND	5 ppm	**
te : ppm = mg/kg	ND	5 ppm	See remark

ND = Not Delected

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 ***

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SZE 131772

2/F. Casta: Building, Enongkang Road Shangtréilin, Shenzhan China 518049

1 (88-755)82114358



Date: May 19 2006 No. 2059812/EC - 2

HUISHENG 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.

SZEC0060420715RS-3:12 Supplier/ Manufacturer HUISHENG S 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.
- To determine the Lead Content in the submitted sample,
- To determine the Mercury Content in the submitted sample,
- 4) . To determine the Hexavalent Chromium Content on the submitted
- Determination of PBBs (polybrominatet/ blohenyls), PBDEs (Polyprominated 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).

With reference to EPA Melnod 3060A & 7196A. The sample was alkeline digested by using EPA Method \$060A, and then analyzed by using Colorimetric method 7196A

(by UV-Vis Spectrophotometer).

With reference to EPA Method 3540C/ 3550C. 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 .: 20001

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SZE 159946



Mércury (Hg) Héxavalent Chromium (Gr.

its shown are of the total weight of samples).

ppm = mg/kg ND = Not Detected

Flame Retardants	Black Plastic	-Detection Limit
Polybrominated Biphenyls (PBBs)	PER LEGISLE	THE REPORT OF THE PARTY.
Monobromobiphenyl	COND	35 ppm
Dibromobiphenyl	NO. P. NO. P. S.	5 ppm
Tribramobiphenyl	ND C. TE	34 40 5 ppm -
Tetrabromobiphenyl c	S ND CONTRACTOR	C. 5 ppm
PentabromobiphenyP = CP	S ND CD	5 pom 25
'Hexabromobiphenyl CO	AS TEXNO	5 ppm
Heotabromoblphenyl >	ND ND	5.ppm
Octabromobiphenyl	ND a sec	20 45 ppm
Nonabromobiphenyl -	- SND A2	5 ppm 9
Decabromobiphenyl	トライト ND マールサー	12 5 ppm 25
Polybrominated Diphenylethers (PBDEs)	CAN SAFE TO THE SAFE	
Monobromodiphenyl ether	ND S MOS	5 ppm
Dibromodiphenyl ether 2000 - 0	ND A TO	5.ppm (4.9)
Tripromodiphenyl ether	A NO COMME	5 ppm 20 200
Tetrabromodiphenyl ether	ND ND	5 ppm C.
Pentabromodiphenyl ether	- AND G	
Hexabromodiphenyl ether	ST PNDC	5 ppm
Heptabromodipherryl ether	ND2	C. 5 ppm 3 19
Octabromodiphenyl ether 2	ND ND TE	5 ppm 5
Nonabromodiphenyl ether	ND P	5 ppm = 2
Decabromodiphenyl ether	TO SHARE THE STATE OF THE STATE	25 ppm - 25
The state of the s	Control of the Contro	Control of the Contro

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

was conducted in SGS Hong Kong Limited

No. 2059812/EC

Date : May 19 2006

Page 3 of

(EPA 3051/3052 for ed. Pb)

Sample measurement (0.25g)

Coutting/Preparation

Microwave digestion 24 with HN93 or HN93 and HF

Total digestion

ICP-AES

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 Texture I study by the Company subject to its General Conditions of Service provide overlead of situating 3. Sale Conditions are also available to the condition of the con

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Test Report

No. 2059812/E

Date : May 19 200

Page 4 of

PHOTO APPENDIX



SGS authenticate the photo on original report only

End of Report

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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 果列、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、

日規同軸線系列、國標 3C 認証線材系列、汽車用線系列及非模線系列等。

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

万条	特質制試報告管制章 Pb Max頃: FV V
Mation (CL: 11)	Cd Maxin: N.D
万麻	出版程度 012
3/204	1 05 412 30
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No.: GZSCR051193565/LP

Date: DEC 05, 2005

Page 2 of 4

Results:

(1)

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

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

(2)

p.	Yellow plastic grains
Flame Retardants	
Polybrominated Biphenyls (PBBs)	
Monobromobiphenyl	ND ND
Dibromobiphenyl	i ND
Tribromobiphenyl	ND ND
Tetrabromobiphenyl	ND
Pentabromobiphenyl ; /	ND .
Hexabromobiphenyl L	\ ND
Heptabromobiphenyl	ND ND
Octabromobiphenyl .	ND ND
Nonabromodiphenyl	/ ND
Decabromodiphenyl	/ ND
Polybrominated Diphenylethers (PBDEs)	
Monobromodiphenyl ether I	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

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GZCM 384064

HM NEZHU Road, SCHRIECH Park Grampton Economic & Technolog Contropned China, Guargiana, China S1995) 中国 - 广州 - 经济技术开发区科学城科珠路198号 邮编:510683 1 (86-20)82155555 1 (86-20)82075113

1 (86-20)82155555 1 (86-20)82075113 1 ags.dhira@ags.com

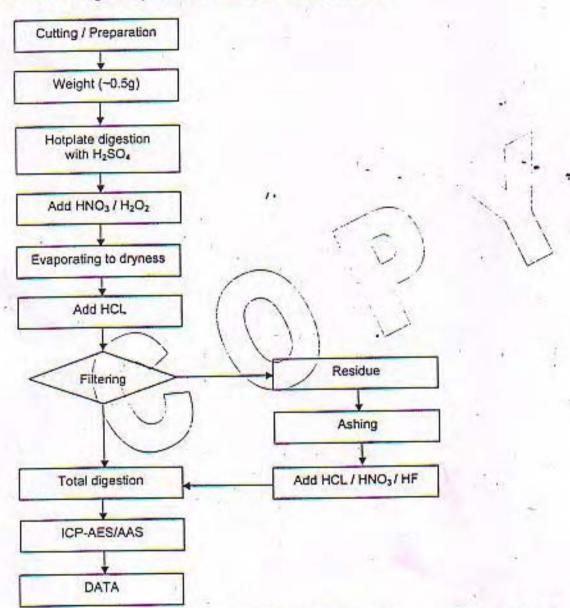


No.: GZSCR051193565/LP

Date: DEC 05, 2005

Page 4 of 4

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

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No.: GZSCR051193565/LP

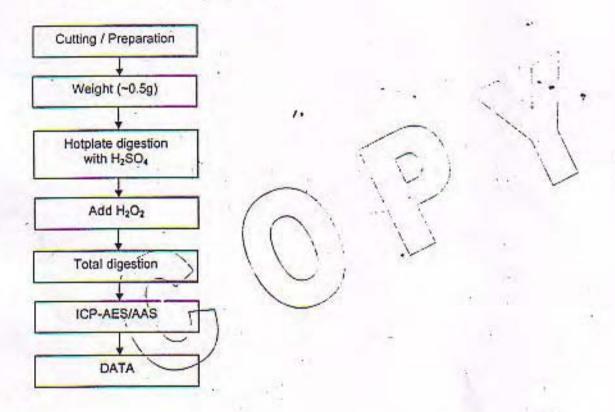
Date: DEC 05, 2005

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

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19. GEZHU Rani, SCENTECH Part Georgeon Economic & Sedwolog Ourstapeant District, Georgeon, Class 5 19863 t (86-20)82 1555555 f (86-20)82 17511.3 中国 - 广州 - 经济技术开发区科学城科政路198号 邮埠:510683 1(86-20)82155555 1(86-20)82075113



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 重列

Lot No.

: JMT060202

Material

NYLON

Main substance

: NYLÓN

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.

So

Huang Fang, Sunny Sr. Engineer デ型 理性美 N.P Gyobrol N.D 連任美 Oと 沙崎学 Ob 3 は 8年 Ob 3 は

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GZCM 2096 C



No.: GZ0602013190/CHEM

Date: FEB 17, 2006

Page 2 of 4

Results

Item	Unit	MDL	Beige plastic housing
Lead Content (Pb)	ppm	2	N.D.
Cadmium Content (Cd)	ppm	2	N.D.
Mercury Cantent (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
Flame Retardants	
Polybrominated Biphenyls (PBBs)	
Manobramabiphenyl	N.D.
Dibromobiphenyl	N.D.
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	N.D.
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D.
Heptabromobiphenyl	N.D.
Octabromobiphenyl	N.D.
Nonabromodiphenyl	Ņ.D.
Decabromodiphenyl	N.D.
Polybrominated Diphenylethers (PBDEs)	
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 ***

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> 6.20M 26961



No.: GZ0602013190/CHEM

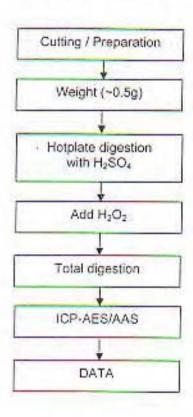
Date: FEB 17, 2006

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

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GZCM + 109cH

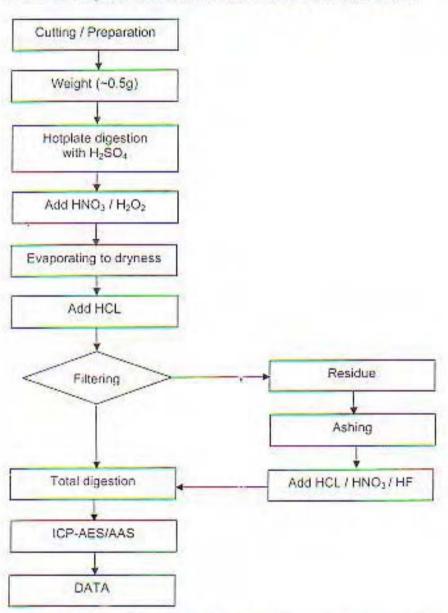


No.: GZ0602013190/CHEM

Date: FEB 17, 2006

Page 4 of 4

(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.

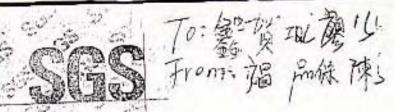
Operator

: Vincent Li

Leader

: Adams Yu

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Report

No.: GZSCR051185022/LP*

Date: NOV 17, 2005

Page 1 of 1

IN THE ROAD OF BUIBU GAD, KONG BA VILLAGE DEVELOPING ZONE, WU SHA, 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 NOV 07, 2005

Sample Receiving Date 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.

est Method

; Lead content - With reference to EPA method 3050B; 1998 (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 Comled Plasma Atomic Emission Spectrometer (ICP-AES) / Direct Mercury analyzer / 'IV-VIS

Spectrophotomeler.

Silvery-grey metal spring

Lead Content (Pb)

Cadmium Content (Cd)

Mercury-Content (Hg)

Hàxavalent Chromium Content [Cr(VI)]

N.D.

N.D.

N.D.

N.D.

Note: - N.O. = Not Detected (< 2 ppm)

- ppm = mg/kg

.: Revised report

*** End of Report ***

Signed for and on behalf of

Zhang Li, Amy

sauge by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also occare accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies ulls shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained Report shall not be reproduced except in full, without written approval of the Company

GZCM 365254

£ (56-20)92155555 £ (95 20)52075113 e sgs.chiro@sqs.com



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.
- 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

No. SH6024497/CHEM

Date: 3.23,2006

Page 2 of 3

lest Re	suits
No.	

No.	Item	11min	-	1
1	Cadmium (Cd)	Unit	DL	A.
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.
	Polybrominated biphenyls (PBBs)	mg/kg	2	N.D.
	Monobromobiphenyl	-	-	_
	Dibromobiphenyl	mg/kg	5	N.D.
	Tribromobiphenyl	mg/kg	5	N.D.
	Tetrabromobiphenyl	mg/kg	5	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.
11	Hexabromobiphenyl	mg/kg	5	N.D.
	Heptabromobiphenyl	mg/kg	5	N.D.
	Octabromobiphenyl	mg/kg	5	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D.
- 1	Decabromobiphenyl	mg/kg	5	N.D.
		mg/kg	5	N.D.
-	Polybrominated biphenyl ethers (PBBEs(PBDEs))	-	_	_
	Monobromobiphenyl ether	mg/kg	5	N.D.
	Dibromobiphenyl ether	mg/kg	5	N.D.
	ribromobiphenyl ether	mg/kg	5	N.D.
	etrabromobiphenyl ether	mg/kg	5	N.D.
	entabromobiphenyl ether	mg/kg	5	N.D.
-	exabromobiphenyl ether	mg/kg	5	N.D.
	eptabromobiphenyl ether	mg/kg	5	N.D.
0	ctabromobiphenyl ether	mg/kg	5	
	onabromobiphenyl ether	mg/kg	5	N.D.
P	ecabromobiphenyl ather			N.D.
		mg/kg	5	N.D.



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.

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 sample of the responsibility of all discrepancy and risk. applicant will take the responsibility of all discrepancy and risk.

*** End of Report ****



No. SH6023992/CHEM

Date: 3.23,2006

Page 1 of 3

1 3. F.

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

Test Results

: Please refer to next page

Signed for and on behalf of SGS-CSTC Chemical Laboratory

> Ella Zhang Sr. Section Head

n by SGS RSTS Date

SGS

Test Report

No. SH6023992/CHEM

Date: 3,23,2006

Page 2 of 3

. 4.

No.	Item			
1	Cadmium (Cd)	Unit	DI	A.
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
	Polybrominated biphenyls (PBBs)	mg/kg	2	N.D.
	Monobromobiphenyl	-	-	-
	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.
200	Heptabromobiphenyl	mg/kg	5	N.D.
	Octabromobipheny!	mg/kg	5	N.D.
3	Nonabromobiphenyl	mg/kg	5	N.D.
. 1	Decabromobiphenyl	mg/kg	5	N.D.
	Polybrominated biphenyl ethers (PBBEs(PBDEs))	mg/kg	5	N.D.
	Monobromobiphenyl ether	-	-	_
	Dibromobiphenyl ether	mg/kg	5	N.D.
	ribromobiphenyl ether	mg/kg	5	N.D.
	etrabromobiphenyl ether	mg/kg	5	N.D.
-	entabromobiphenyl ether	mg/kg	5	N.D.
	exabromobiphenyl ether	mg/kg	5	N.D.
	eptabromobiphenyl ether	mg/kg	5	N.D.
	ctabromobiphenyl ether	mg/kg	5	N.D.
	onabromobiphenyl ether	mg/kg	5	N.D.
	ecsbromobiphenyl ether	mg/kg	5	N.D.
	The state of the s	mg/kg	5	N.D.

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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 ***



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 Testing Period

SEP 07 2006

SEP 07-13 2006

Test Requested

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

Test Method

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



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
Polybrominated Biphenyl (PBBs)	ND	50	1000
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	
Polybrominated Diphenylethers (PBDEs)*	ND	45	1000
Monobromodiphenyl ether	ND	5	15
Dibramadiphenyl 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	
Sum PBDE (Mono to Deca) *	ND	50	

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

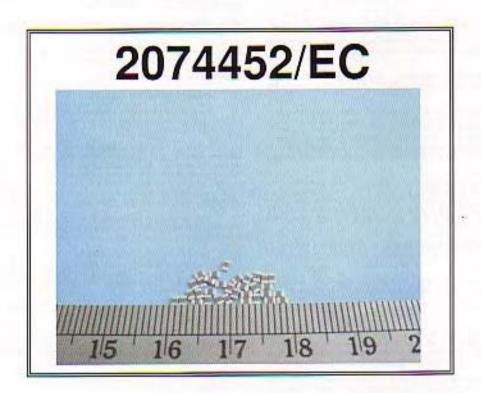


No. 2074452/EC

Date : Sep 13 2006

Page 3 of 3

Sample photo:



SGS authenticate the photo on original report only

""End of 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

- 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.
- 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.
- With reference to USEPA 8051A/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 Zhano Sr. Section Head

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SHCHEM 813386



	Report No. SH6076118/CHEM			
Va.	ltem	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.
	Polybrominated biphenyls (PBBs)			-
	Monobromob phenyl	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.
18	Octabromob phenyl	mg/kg	- 5	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D
N. i	Decabromobiphenyt	mg/kg	- 5	N.D.
5	Polybrominated biphenyl ethers (PBBEs(PBDEs))	The Later	-	
	Monobromobiohenyl ether	mg/kg	5	N.D.
	Dibromopiphenyl ether	mg/kg.	5	N.D.
	Tribromobiphenyl ether	. mg/kg	-5	N.D
	Tetrapromobiphenyl 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.
	Decabromotiphenyl ether	mg/kg	5	N.D

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SHCHEM 813385

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A DESCRIPTION A NAME OF THE OWNER, THE



No. SH6076118/CHEM

Date Jun 26, 2006

Page 3 of 3

Sample Appearance Description (Photo see appendix)

A. Black-white resistor body (mot al)

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 ***

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SHCHEM 813384

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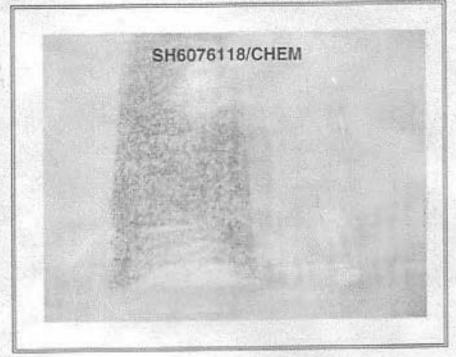
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No. SH6076118/ CHEM

Page 1 of 1





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Signed for and on behalf of SGS-CSTC Chemical Laboratory

> Ella Zhang Sr. Section Head

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SHCHEM 837449



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

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GZCM 340660



No.: GZSCR051082051/LP

Date: NOV 04, 2005

Page 2 of 2

Results:

\./	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
Flame Retardants	
Polybrominated Biphenyls (PBBs)	
Monobromobiphenyl	ND
Dibromobiphenyl	ND
Tribromobiphenyl	ND
Tetrabromobiphenyl	ND
Pentabromobiphenyl	ND
Hexabromobiphenyl	ND
Heptabromobiphenyl	ND
Octabromobiphenyl	ND
Nonabromodiphenyl	ND
Decabromodiphenyl	ND
Polybrominated Diphenylethers (PBDEs)	
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 ***

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GZCM 340661

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

: NYLON 66RESIN+ GF

Sample Receiving Date: Feb. 17, 2006 Testing Period

: Feb. 17-22, 2008

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 submittedisample.

Test Melhod.

- : 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 (JCP-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.
- With reference to US EPA 3052 or other sold 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 Melhod 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

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SHCHEM 478426

1 10/F. 3rd Building, No. 989, Yrchan Road, Shanghai, Ctime 200233 1 (26:21)61402856* 2720 中国,上海一宫山路889年3号松10日 邮码:200233

1 (55-21)51402553

1 (86-21)54500314 ((BE-21)54500314



No. SH6015383/CHEM

Dale: Feb. 22, 2006

Page 2 of 2

Test Results

No.	<u>Item</u>	Unit	DL	A
1	Cadmium (Cd)	mg/kg	22	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.
- T. F	Polybrominated biphenyls (PBBs)		-	usa
	Manobromoblphenyl	mg/kg	5	N.D.
	Dibromobiphenyl	mg/kg	5.	N.D.
	Tribromoblphenyl	mg/kg	5	N.D.
2	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.
5	Polybrominated biphenyl ethers (PBBEs(PBDEs))			-
	Monobromobiphenyl ether	mg/kg	5	N.D.
	Dibromobiphenyl ether	mg/kg	5	N.D.
C	Tribromobiphenyl ether .	mg/kg	5	N.D.
	Tetrabromobiphenyl ether	mg/kg	5	N.D.
	Pentabromobiphenyl ather	mg/kg	5	N.D.
120	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 *

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SHICHEM 473485

101F, 3rd Building, No.888, Yishan Road, Shanghai, China 200233 中国・上海・宜山路889号3号控10层 的场:200233

t (85-21;61402866*2720 1 (63-21/61402553

1 (88-21)54500314 1 (66-21)5:500314



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 3050Bl 3051/ 3052, or other acid digestion Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Alomic 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 3080A & 7195A.

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

To the company subject to its Ganoral Conditions of Service printed overlest or all sched. Said Conditions are also of the Company subject to its Ganoral Conditions of Service printed overlest or all sched. Said Conditions are also of the Company of the Company of the Company.

The Court shown in this Test Report refer only to the sample(s) tosted funders of the Company.

SHCHEM 479193

中國、上海、宜山路889号3号模10层 邮场:200253

1 (86-21)61402553

1 (88-27)54530314 1 (64-21)54564312



No. SH6015391/CHEM

Date: Feb. 22, 2006

Page 2 of 2

	esuits : Item	0+=	State of the state	Unit	DL	A
No.	Cadmium (Gd)	70	- t	mg/kg	2	N.D.
2	Lead (Pb)	NAE 1		mg/kg	2	N.D.
2	Mercury (Hg)			mg/kg	2	N.D.
-	Hexavalent Chromium (Cr VI)	0-0		mg/kg	2	N.D.

Sample Appearance Description (Photo see appendix); A. Silvery-grey metal

Note: 1mg/kg=1ppm=0.0081% 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 ***

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SHCHEM 470184 1 (65-21)54500314 www.cn.sgs.com

10万 3rd Bullding, No.583, Yehran Posed, Sherighel, Chira 200233 t (86-21)51602866*2720 中国、上灣、宜山蘇669号3号模10层 邮络1200233 t (86-21)61602563 1 (85-21)54500314 23. JAN. 20072 17: 629 FRE LAS 8512. SAL . ES

---- 566 'ON-



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.

: SHEC0060208053-7

Model

: **Ф12.5** AND **Ф15.8**

Material

: SAE52100SF AND SUJ 2 MDSF

Sample Receiving Date: Feb. 17, 2006

Testing Period

; Feb. 17 - 22, 2008

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 Alomic Absorption Spectrometry.
- 2) With reference to EPA Method 30508/ 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 7186A.

Test Results

: Please refer to next page

Signed for and on behalf of SGS-CSTC Chemical Laboratory

Ella Zhang

Sr. Section Head

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> 10/F, 3rd Building, No.889, Yishan Road, Shanghal, China 200283 中国 - 上海 - 宜山路889号3号楼10层 郎绢:200233

1 (88-21)61402669*2720 1 (86-21)61402553

SHCHEM 470222 1 (88-21)54500314

f (25-21)54500314 23. JAN, 2007" 7:045 electric SBS E&E LAB RSIS

966 ON

SAS

Test Report

No. SH8015393/CHEM

Date: Feb. 22, 2006

Page 2 of 2

Test Results

No.	<u>Item</u>	<u>U</u>	nit	.DL	No.1	No.2
1	Cadmium (Cd)	m	gikg	2	N.D.	N.D.
2	Lead (Pb)	mg	g/kg	2	N.D.	N.D.
3	Mercury (Hg)	ing ing	g/kg	2	N.D.	N.D.
4	Hexavalent Chromium (Cr VI)*	ms	g/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 3080A/7196A were used for determination of the sample

*** End of Report ***

1 10/F, 3rd Building, No. 889, Yishen Road, Shanghal, China 200233

t (85-21)61402663 12720 1 (56-21)51402553

SHCHEM 476221 f (88-21)54600314 f (86-21)54500314

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144, 2007 17:045 sestions) Ses E&E LAE RSTS



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-439; No.3: LY-552

Testing Period

Sample Receiving Date: Feb. 17, 2006 : Feb. 17 - 23, 2008

Test Requested

: 1) 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.

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 industively 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

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3: ...t. | 10'F, 3'd Building, No.889, Yishan Roed, Shanghai, China 201233 ②四次、中国、上海、宜山路889号3号接10周 刘纳:200233

1 (88-21)31482553

1 (88-21)£1500314 f (88-21;54500014



No. SH6015381/CHEM

Date: Feb. 23, 2006

Page 2 of 3

Test	Results
	-

No.	<u>llem</u>	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.
	Polybrominated biphenyls (PBBs)	-				-
40 E	Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
į.	Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Tetrabromobiphenyl	mg/kg	6	N.D.	N.D.	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Hexabromobiphenyl	mg/kg	, 5	N.D.s	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	6	N.D.	N.D.	N.D.
~	Decabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
5	Polybrominated biphenyl ethers (PBBEs(PBDEs))				040	
	Monobromobiphenyl ether	mg/kg.	5	N.D.	N,D,	N.D.
	Olbromobiphenyl 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.
	Hexabromoblphenyl 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.

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SHCHEM 471889 1 (85-21)81402568 * 2720

101F, 3rd Building, No.889, Yishan Road, Shenghai, Chino 200223 74.8227 中国·上游·室山路889号3号楼10层

1 (85-21)81402553

1 (86-21)54500014 1 (86-21)54500314



No. SH6015381/CHEM

Date: Feb. 23, 2006

Page 3 of 3

Sample Appearance Description(Photo see appendix):

No.1 Belge dope No.2 Belge-yellow dope No.3 Belge-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 ***

estables is sued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also supported by a contract of the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also supported to the company of the Service of the service of the service of the Company.

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1 (55-21)6:402668 2720

SHCHEM 471885 f (88-21)545C0314 1 (66-21)51500314



To:鑫贺/IQC郭姆(知

Test Report

No.: SZTYR050413856/LP

Date: MAY 13, 2006-

Page 1 of 2

TINCHENG PAOMIAN JIAODIAN PRODUCT CO , LTD. HANKIN AREA, QIAOTOU TOEN. DONGGUAR CITY

Remail on the submitted samples said to be used for PE 汽 池 缎

mintry of Destination

EUROPE.

chapte Receiving Date

: APR 30, 2006,

Lesting Period

: MAY 07, 2006;) MAY 12, 2006.

Lest Requested

To determine Total Lead, Cadmium, Mercury and Hexavalent Chromium

content in the submitted packaging samples.

rest Medical

Analysis was performed by inductively Coupled Plasma Atomic

Emission Spectrometer.

Wasterle

Please refer to next page.

District Charles

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.

in the and on behalf of +1000-1460

it carchang. Helenand Manager

the part of several by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also overleaf or attached. Said Conditions are also overleaf or attached, Said Conditions are also overleaf or attached. Said Conditions are also overleaf or attached, Said Conditions are also overleaf or attached the results shown in this Test Report refer only to the sample(a) tested unless otherwise stated and such pample(s) are retained tive last Report shell not be reproduced except in full, without written approval of the Company.

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3/F-4/F-9/F, Oaster Building, Thorograpy Acord Shanghasilla, Shenghan Chica 518049 | 1 (86-765)83114388 | 1 (86-765)83106190 | 83118834 | However, pp. 545-6504

Marcher of SGS General Società Générale de Serveillement

Tot鑫裝/Iac數學的

SGS

Test Report

No.: SZTYR050413856/LP

Date: MAY 13, 2006,

Page 1 of 2

Pepulta

Lead [Pb]

Cadmium [Cd.]

Mercury [Hg]

Transparent	hisel	IN F	llim.
TELESCOPE STATES	THE 2-	MARY E	1197.3

<2

52

= 2

<.2

100

Total [Pb + Cd + Cn(VI) + Hg] Total Limit

Hexavalent Chromium (Cr(VI))

Note: - < = Less than

- The unit of results is mg parkg

Pienre Retardants	Transparent plastic film	Detection Limit (ppm)
Polybrominated Biphenyls (PBBs) 1996	Contract of the Contract of th	aren meren and a second
Menabromobiphenyl	ND .	5
molphenyl	ND.	5
Telerandophenyl	ND	5
7-majoromobiphenyl	ND	5
Panjapromobiohenyl	ND	5
Hexapromobiphenyi	ND	5
Heptahromobiphenyl 488	TOTAL PROMETING BOTH STREET	5
Octabremobiphenyl	The State of the S	5 mg
Nanabromodiphenyl	ND ND	Service 1775
Tre: abromodipheryl	ND.	5
on or ominated Diphenylother (PBDE+)	The Party of the Control of the Cont	
Himbromodiphenyl ether	NO CONTRACTOR OF THE PARTY OF T	5 (2) B
Janomodiphenyl ether	ND 1	5
Inbremodiphenyl ether	ND: Tolerand	5
! straturansadiphenyl ether	ND ND	5
ent abromodiphenyl ether	ND ND	
whromodiphenyl ether	ND ND	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
tentabromodiphenyl ether - 1	The state of the s	5
hatromodiphenyl ether	NO "	5
lonahromodiphenyl other	ND ND	5
Decapromodiphenyl other	ND	

"Into ND = Not Detected (< 5ppm)

Non-detected is lower than detection limit value.

*** End of Report.

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332545

2/F4F5F, Costar Busing, Zhongdung Rand, Stumphelin, Shoreten China \$18048 1 (86-765)83154366 1 (86-766)83106190 83113536 (rew china) control

Mamber of SGS Group(Société Générale de Surveillance)



No. 2052491/EC

Date: Feb 15 2008

Page 1 of 3

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

Report on the submitted sample said to be 矜賴肯.

SGS Job No.

1976699

SGS Ref. No.

SZEC0080204023RS

Buyer

SONY

Supplier / Manufacturer Sample Receiving Date SOURCE CHEMICAL TECH

FEB 11 2006

Testing Period

FEB 11 - 15 2006

Test Requested

- To determine the Cadmium content in the submitted sample. 1)
- To determine the Lead content in the submitted sample.
- To determine the Mercury content in the submitted semple: 3)
- To determine the Hexavalent Chromium content on the submitted sample. 4)
- To determine PBBs (polybrominated biphenyls) and PBDEs (Polybrominated 5) 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.
- 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).

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 Kh Tipg, Family Laboratory Executive

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SZE 134582

2F, Castar Building, Zhongkang Road, Shangmallin, Sheruhen, Ctana 516049 中國、深圳、上梅林中級路區士达大廈2屋

1 (88-755)83162282 t (66-755)8311 ¥358 [(\$6-755)8318Z782 t (86-755)23114365



No. 2052491/EC

Date: Feb 15 2006

Page 2 of 3

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 (Crot)	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
Polybrominated Biphenyls (PBBs)		V /
Monobromobiphenyl	NO	5 ppm
Dibromobiphenyl	ND	5 ppm
Tribromobiphenyl	ND -	5 ppm/ /
Tetrabromobiphenyl	/ ND/ /	5 ppm \
Pentabromobiphenyl	ND /	5 ppin \
Hexabromobiphenyl	ND /	fi ppm
Heptabromobiphenyl /	ND \	5 ppm
Octabromoblphenyl	ND.	ti ppm
Nonabromobiphenyl	ND }	5 pprn
Decabromobiphenyl \	ND ND	5 pprn
Polybrominated Diphenylethers (PBDEs)	4	-
Monobromodiphenyl ether	/ ND	5 ppm
Dibramodiphenyllether	ND	§ ppm
Tribromodiphenyl ether	ND	5 ppm
Tetrabromodiphenyl ethor	ND	5 pom
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

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1 (85-755)63192762 t (85-765)33114318

www.cn.sps.com ses china fistes com



No. 2052491/EC

Date : Feb 15 2006

Page 3 of 3

PHOTO APPENDIX

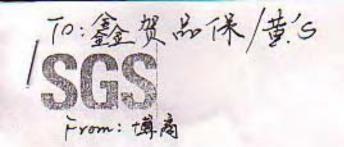


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SZE 134584

27. Gaster Buttong. Zhongsang Road Strangmeilin, Shenzawn, China 518048 中國-深圳-上海林中康路與士通大廈2階

1 (56-755(83114356



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

(3) Determination of PBBs (Polybrominated Biptienyls), PBDEs (Polybrominated

Diphenylethers) of the submitted sample.

Lest 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.

Zlang Li, Amy Sr Engineer

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[16] 1897-William SCRIFFORD Search Encount Entropy Device and Control Control Control Control (1997-2018) 1997-2018 (1997-2018) 1 即用:广州:程流技术开发区科学城村建器198号。超端:510663 1 (3520)23255 1(6520)030543 e sp: dassesus com



No: GZSCR0512106804/LP

Date: JAN 05, 2006

Page 2 of 4

Results:

 (1)
 Dk-grey sheet

 Lead Content (Pb)(ppm)
 14

 Cadmium Content (Cd)
 N.D.

 Mercury Content (Hg)
 N.D.

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

ppm = mg/kg

(2) Dk-grey sheet

Hexavalent Chromium [Cr(VI)](ppm)

Note: - ppm = mg/kg

(3)	Dk-grey sheet
Flame Retardants	
Polybrominated Biphenyls (PBBs)	
Monobromobiphenyl	ND
Dibromobiphenyl	ND
Tribromobiphenyl	ND
Tetrabromobiphenyl	ND
Pentabromobiphenyl	ND
Hexabromobiphenyl	ND
Heptabromobiphenyl	ND
Octabromobiphenyl	ND
Nonabromodiphenyl	ND
Decabromodiphenyl	ND
Polybrominated Diphenylethers (PBDEs)	
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 ND
Decabromodiphenyl ether	ND

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

- ppm = mg/kg

*** End of Report ***

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| Co. 111 | 16822M-Red SORNECHPas Guarge College Control (France Control Cont



No - GZSCR0512106804/LP

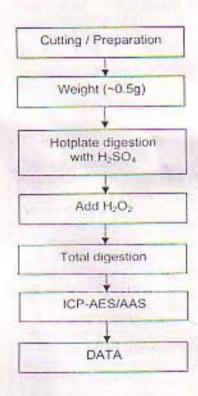
Date: JAN 05, 2006

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

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TREASE-PURPORT SCENTECH Part Georgetes Economic & Schooling Development Desirt, Georgetes, Charles \$1665. 1 486-204621555555 | 1 (86-20462075113 altaborator 中山·广州·经济技术开发区科学城科联路199号 邮编:510663 t |86-20/62/5555 t |86-20/62/75113 e squithenags.go.com

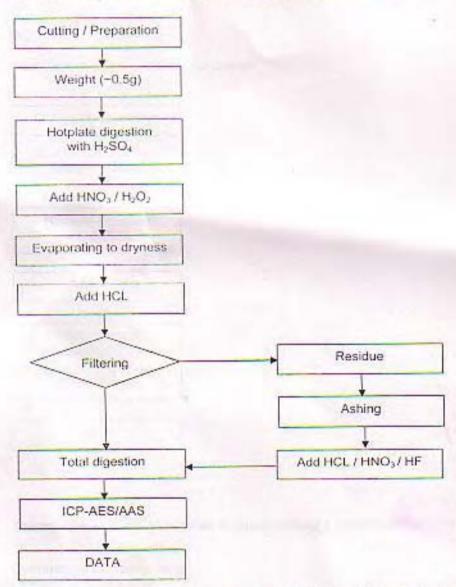


No. GZSCR05121068047LP

Date: JAN 05, 2006

Page 4 of 4

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

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高碳包砂

Test Report

No.: GZ0605079679/CHEM

Date: JUN 05, 2008

HOLFU PAPER PRODUCTS LTD SAN TUN HOUSE, DONGGUAN CITY, S

Report on the submitted packaging samples said to be CARTON

SGS Raf No.

GZC60516432EC-3.1

item / Model No.

A=A

Sample Receiving Date

MAY 31, 2006

Testing Period

MAY 31, 2006 TO JUN 02, 2006

Test Receested

- 1) To determine Lead, Cadmium, Mercury and Hexavalent Chromium Content in the submitted sample.
- As specified by client, to test soluble Lead, soluble Antimony, soluble Asserte Soluble Barium, soluble Cadmium, soluble Chromium, soluble Mercury soluble Salanium content in the submitted sample.

Tes! Method

- 1) Lead confent Wah reference to EPA method 3050B: 1998 / other acid digestion Caumium content - With reference to BS EN1122: 2001 method B / other acid digestion. Marcury content - With reference to EPA 3052; 1996 / 7473; 1998 / other acid digestion Haxava ent Chromium content - With reference to EPA 3060A: 1996 & EPA 7196A: 1992. Analysis was performed by Atomic Absorption Spectromater (Industively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / Direct Mercury analyzer / UV-VIS
- With reference to EN71 part 3 : 1994 (including emendment A1:2000).

Analysis was performed by Atomic Absorption Scientification inductively. Coupled

Plasma Alomo Emission Spectrometer (ICP-AES).

Result

: Please rafer to next page.

Conclusion

1) The Lead, Cadmius: Mercury and Hexavelent Chronium Contention the submitted sample complies with the requirement of European Council Directive 04/62/EO - Article 11 that effective June 2001.

Signed for and on behalf of SGS-CSTC LIG.

Zhang Li, Amy Sr. Engineer

can be a seed by the Company subset to its General Conditions of Service printed everteat or attached. Said Conditions are a so a Property of the Interest of

Largest Oliv 1980 | 1 htt 2000 1981 | 1 for 2000 177 1875 1 pt 1921-1933 (55-2020) 905, 4 mi dan Buye con Mamber of the SGS Group (SC

Date: JUN 05, 2006

Results :

1) 94/62/EC

	Brown corrugated paper boato
A STATE OF THE STA	37
Lead [PD]	< 2
Cadmium [Cd]	< 2
Mercury [Hg]	< 2
Hexavalent Chromium (Cr(VI))	*****
1 0 400 1 16-1	< 43
Total (Pb + Cd + Cr(VI) + Hg)	100
Total Limit	

Note - < a Lass than

. The unit of results is mig per kg

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

Elament (Pb.) Scluble Lead (Pb.) Scluble Antimony (Sb.) Scluble Arsanio (As.) Scluble Barum (Ba.)	Brown cornigated paper board 14 < 2 < 2 < 2	Lim) 30 mg/kg 50 mg/kg 25 mg/kg 1000 mg/kg 75 mg/kg
Soluble Cadmium (Cd.) Soluble Chromium (Ct.) Soluble Mercury (ng.) Soluble Selprium (Sc.)	< 5 < 5 < 2 < 3	. 80 mg/kg - 80 mg/kg - 80 mg/kg - 800 mg/kg

- < # Less than

End of Report ""

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Page 1 of 2 No. GZ9605079860/CHEM. Date: JUN 05 2006

HOLFU PAPER PRODUCTS LTD SAN TUN HOUSIE, DONGGUAN CITY.S

Report - the submitted packaging samples said to be CARTON

SGS Ref No.

GZ060516432EC-3 2

olf lebort / maff

B38

Tample Receiving Date

MAY 31, 2006

Testing Period

MAY 31, 2006 TO JUN 02, 2006

Test Requested

- 1) To determine Lead, Cadmium, Mercury and Hexavalant Coromium Contact to the submitted sample.
- 2) As specified by client, to test soluble Load, soluble Adimony, soluble Arcenic. Soluble Barium, soluble Cadmium, soluble Chromium, entitles Mercury, soluble Selenium content in the submitted serrold.

Test Mathod

- ; 1) Load content With reference to EPA method 3/5000 1696 / other acid digestion. Gadmium content - With reference to BS SN1122, 2001 method 5 / other solo digestion Mercury content - With reference to EPA 3052: 1998 / 7473: 1998 / other acid a gestion Hexavalent Chromium content - With reference to EPA 2080A; 1995 & EPA 1196A : 1990 Analysis was performed by Atomic Absorption Social coneter "Inductively Coupled Plasmo Atomic Emission Spectrometer (ICP-AES), Decit Microry analyzer (IDV-Vis
 - 2) With reference to EN71 part 3 : 1991 (including an ardinant A1 2000) Analysis was performed by Atomic Accordion Sprint one en i Industrially Couples Plasma'Atomic Emission Specarameter (ICP-ASS).

Rogari

Please refer to next page.

Canalusion

1) The Total Cadmium, Mesoury and Hexavarent Chromitan Content in the submitted sample complies with the requirement of European Council Directive 94/62/EG - Article 11 that effective June 2001.

Signed for and on behalf of SGS CSTC Ltd.

Zhat Li, Amy

secund by the Company subject to the Concept Conditions of Service printed evertical or attached. Said Conditions are cit-There is the content of the first the first of the relation of the content of the



Date, JUN 05, 2006 Page 1 of 1 No.: GZ6696079680/CHEM

Results :

11 94/62/EQ

	Brown coundated baset now a
Water of the Control	25
Lead [Pt]	< 2
Cadmium (Cd)	< 2
Margary (Hrt.)	< 2
Hexavalent Coromium (Crovi)	****
-	4 27
ral [Pc - Cd + C1V*) - HSI	100
Total Limit	

Note: • * # Less than

. The unit of results is mg per kg

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

Solutio Antimony (8:0199 corrugated page: 303rd 85)	<u>Limil</u> 90 mg/kg 68 mg/kg 25 ma/kg 1000 mg/kg
Soluble Cadmium (Soluble Chronium) Soluble Marcury	Ba) C1: 54 C1: 45 K2: 45 Se)	75 mg/kg 62 mg/kg 60 mg/kg 500 mg/kg

- c = Less than

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Date: JUN 05, 2006 No.: GZ0605079681/CHEM

OLFU PAPER PRODUCTS LTD AN TUN HOUJIE, DONGGUAN CITY,S

isport on the submitted packaging samples said to be CARTON

GS ReF No.

GZ050516432EC-3.3

tem / Model No.

K=K

Sample Receiving Date

MAY 31, 2006

lesting Period

MAY 31, 2006 TO JUN 02, 2006

Requested

- ; 1] To determine Lead, Coornium, Mercury and Hexavalent Chromium Content in the submitted sample
 - 2) As specified by client, to test soluble Lead, soluble Antimony, soluble Arsenic. Soluble Barium, soluble Cadmium, soluble Chromium, soluble Mercury, scluble Selenium content in the submitted sample.

inst Wethou

- 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 : 1995 & EPA 7196A : 1992. Analysis was performed by Atomic Absorption Spectrometer / Inductivaly Coupled Picsma Atomic Emission Spectrometer (ICP-AES) / O rect Mercury analyzer / UV-VIS Spectrophotometer.
- 2) With reference to EN71 part 3 : 1994 (including amendment A1:2000) Analysis was performed by Atomic Absorption Spectrometer / Inducts at y Coupled Plasma Atomic Emission Scectromatar (ICP-ASS)

Result

Plaase refer to next page.

JS:00

() The Lead, Cadmium, Mercury and Haxava ant 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 banalf of SGS-CSTC Ltd.

Zilarig Ll, Arny Sr. Engineer

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No.: GZ0605079681/CHEM

Date: JUN 05, 2006

Page 2 of 2

eaults :

94/62/EC

	Brown corrugated paper board w/ red printing		
Lead (Pb) Cadmium [Cd] Marcury [Hg) Hexavalent Chromium [Cr(VI)]	19 < 2 < 2 < 2 < 2		
Total Limit	< 25 100	*	

Note: + < = Less than

- The unit of results is mg per kg

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

1874	Brown cornugated page: board w/ red crinting	<u>Limit</u>
Element Soluble Lead (Pb) Soluble Antimony (So) Soluble Arsenic (As) Soluble Barium (Ba) Soluble Codmium (Cd) Soluble Chronium (Cr) Soluble Marcury (Hg) Soluble Solenium (Se)	< 5 < 2 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5	90 mg/kg 60 mg/kg 25 mg/kg 1900 mg/kg 75 mg/kg .60 mg/kg 500 mg/kg

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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

: 00.2×0.2~1.2×1.2mm

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.

To determine the Lead Content in the submitted sample.

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 3050By 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 Coopled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.

With reference to ISO-3613: 2000(e).

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

Sameta Bas Con La Salar Col Laboration

Sr. Section Head



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f (86-21)54500314 1 (96-21)61402666 - 2720 1 (86-21754800014 1 (86-21)61402653

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No. 8H6023234-1/CHEM

Date: Mar. 20, 2006

Page 2 of 2

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.
	The state of the s	µg/cm²	0.02	N.D.
4	Hexavalent Chromium (Cr VI)	mg/kg*	2	N.D.
	Polybrominated biphenyls (PBBs)		T	
	Monobromobiphenyl	mg/kg	5	N.D.
	Dibromoblphenyl	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	ND.
	Nonabromobiphenyl	mg/kg_	5	N.D.
_	Decabromobiphenyl	mg/kg) \$	N.D.
5	Polybrominated biphenyl ethers (PBBEs(PBDEs))	\	/	
	Monobromoblphenyl ether	mg/kg	5	N.D.
	Dibromobiphenyl ether	mg/kg	5	N.D.
	Tribromobiphenyl ether	mg/kg	5	N.D.
	Tetrabromopiphonyl-giffer	mg/kg	5	N.D.
	Pentebromobiphenyl ether	mg/kg	5	N.D.
	Hexabromobiphenyl ether	mg/kg	5	N.D.
	Heptabromobiphenyl ether	mg/kg	5 4	N.D.
	Octebromobiphenyl-ather	rng/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

13

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 ***



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SHCHEM 562869

10rF, 3rd Building, No 859, Yishen Road, Shanghai, China 200233

1 (86-21)61402566 * 2720 1 (88-21)61402663

1 (86-21)54500314 1 (86-21)54500314

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No.: GZ0605089089/CHEM

Date: SEP 01,2006

Page 1of 2

SHEN ZHEN YONG AN FLUX CO., LTD.

5TH 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

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GZCM 586081

SCS-O TO Standards Technique Sovies Co.Ltd.



No.: GZ0605089089/CHEM

Date: SEP 01, 2006

Results:

S Citem S	Unit	MDL	Gray paste
Lead Content (Pb)	ppm	- 2	96 69 9
Cadmium Content (Cd)	ppm	2.0	G 504 5 CS
Mercury Content (Hg)	_ ppm	2	S N.D.
Hexavalent Chromium (Cr VI)	ppm	5 2	5 K.D. 6 50

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

-ppm = mg/kg

C ALLY D A	
62 64 - 3 CB CB	Gray paste
Flame Retardants	CO
Polybrominated Biphenyls (PBBS)	2 2 2 2 2 2 2
Monobromobiphenyl	S S C CN.D. CO S
Dibromobiphenyl	6 6 9 N.D. CD 60
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	N.D. C
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D. CO
Heptabromobiphenyl	N.D.
Octabromobiphenyl	65 CV 7 N.D. 68 9
Nonebromobiphenyl	N.D.
Decabromobitphenyl	N.D.
Polybrominated Diphenylethers (PBDEs)	2 6 00 00 00
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.
Octebromodiphenyl ether	N.D.
Nonebromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.U.

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

End of Report

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No.: GZ0602012510/CHEM

Date FEB 16, 2006

SHEN ZHEN YONG AN FLUX CO., LTD _ 44

BPOCK, JIATIANGANGHUANGTIAN INDUSTRIAL DISTRICT, XIXIANGTOWN, BAOAN AREA, SHENZH

Report on the submitted sample said to be GREE NO CLEAN FLUX F-900B

SGS Ref.No.

SZ060204092RC-9.6

Model No. C.

FLUX

Sample Receiving Date

:-FEB 10, 2006

Testing Period

: FEB.10, 2006-TO FEB.16, 2006

Test Requested

As specified by client, to determine the Lead, Cadmitim, Mercury & Hexavalent Chromium

content in the submitted sample.

(2): Getermination of PBBs (Polyprominated Bipnanyls), PBDEs (Polyprominated

Diphenylethers) of the submitted sample.

:(1)/Lead content -: With reference to ERA method 3050821996 / other acid digestion: Cadmium content - With reference to BS EN1122 2001 method B120ther and digestion Mercury content - With reference to EPA 3052, 1996 Lother acid destion Hexagaient Chromium content - With reference to EPA 3050A: 1996 & EPA 7196A Analysis was performed by Alomic Absorption Spectrometer Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer (2) With reference to EPA-3540C / 3550C. Analysis was performed by GCM'S.

Please refer to next page.

Signed for and on behalf of SGS-CSTC Ltd.

Zhang Li, Amy Sr: Engineer

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No.: GZ0802012510/CHEM

item.	Unit	MDL	Lt-yellow liquid -
Lead Content (Pb)	ppm	2 2	+ ND
Cadmium Content (Cd)	ppm -	2	N.D.
Mercury Content (Hg)	ppm	= 2	N.D.
Hexavalent Chromium (Cr VI)	ppm	2	NO -

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

	200	
C.		Lt-yellow liquid
	Flame Retardants	100
	Polybrominated Biphenyls (PBBs)	G-
7	Monopromoblehenyl	N.D.
1	Dibromobiphenyl	N.D.
-	Tribromopiphenyl	
7	Tetrabromobiphenyl	N.D.
1	Pentabromaniphenyl	N.D.
4	Hexabromobiphenyl	S ND
1	Heptabromobiphenyl	N.D.
1	Octabromobiphenyl::	N.D.
S.	Nonabromod phenyl	N.D.
	Decabromodiphenyl.	N.D.
L	Polybrominated Diphenylethers (PBDEs)	N.D.
T	Monobromodiphenyl ether	
T	Dibramodiphenyl ether	_ND
1	Tribromodiphenyl ether	- N.D.
1	Tetrabromodiphenyl ether	- ND
П	Pentabromodiphenyl ether	N.D.
	nexabromodiphenyl ether	N.D.
		N.D.
1	eptabromodiphenyl ether	N.D.
H	Octabromodiphenyl ether	N.D.
H	lonabromodiphenyl ether	N.D.
L	Decapromodiphenyl ether	N.D.
124		Description of the second seco

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

*** End of Report ***

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07/08 2006 10:18 FAX 075529903085



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.
 - Determination of Cadmium content in the submitted samples. Determination of Mercury content in the submitted samples.
 - Determination of Hexavalent Chromium content in the submitted samples.

Test Method

- : 1) With reference to EPA 3050B:1996 / Other sold 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).
- With reference to EPA Method 3052; 1996 / other acid digestion. Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).
- 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 5+)	- Ñegative	0.02mg/kg with 50cm ²

Note |

- N.D. = Not detected (lower than detection limit)
- ppm = ma/ka

4 -- 1

Negative means the concentration of Hexavalent Chromium extracted from 50cm2 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 50cm2 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

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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 基架射叶绝缘片 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 Chromlum 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 Ll, Amy Sr. Engineer

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GZCM 682501



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
Cadmlum 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
Flame Retardants		at a track	THE RESIDENCE THE PARTY	THE SHARE TO A
Polybrominated Biphenyls (PBBs)	野 韓原語	學是有主義 法		< 1000mg/kg
Manobramobiphenyl	mg/kg	5	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	Marie -
Tribromobiphenyl	mg/kg	5	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	100
Heptabromobiphenyl	mg/kg	5	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	E STEEL
Nonabromodiphenyl	mg/kg	5	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	
Polybrominated Diphenylethers (PBDEs)(Mon-Non)			AND THE STATE OF	< 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.	25.
Heptabromodiphenyl ether	mg/kg	5	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	70.2
Nonabromodiphenyl ether	mg/kg	5	N.D.	
Decabromodiphenyl ether [△]	mg/kg	5	N.D.	

Note: - N.D. = Not Detected (< MDL)

- MDL= Method Detection Limit

- mg/kg = ppm

*** End of Report ***

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47CM 682663

⁻ A: 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.



No.: GZ0608121421/CHEM

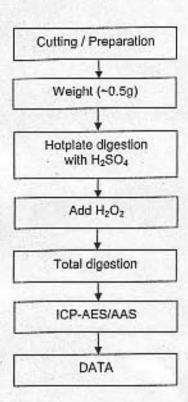
Date: AUG 14, 2006

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

; David Shen

Leader

: Julie Zhong

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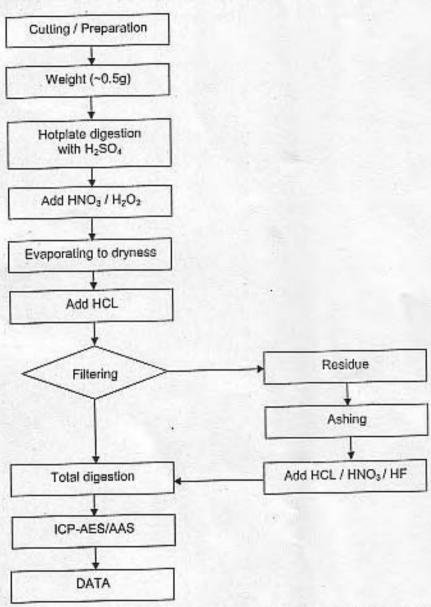


No.: GZ0608121421/CHEM

Date: AUG 14, 2006

Page 4 of 4

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

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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

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GZCM 336104

SGS

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)	Ņ.D.
Mercury Content (Hg)	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.

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

-ppm = mg/kg

(2) Flame Retardants	"PCB" (mixed)
Polybrominated Biphenyls (PBBs)	
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.
Polybrominated Diphenylethers (PBDEs)	
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.

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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

ical Laboratory.

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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 (Cr6+)

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

Co., Ltd.

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 (CrVI)	mg/kg	2	N.D.

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No. SH6046093/CHEM

Date: Apr.24,2006

Page 3 of 5

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

<u>Item</u>	<u>Unit</u>	DL	No. 1*
Polybrominated biphenyls (PBBs)	mg/kg		100
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)(Pentabromob)phenyl ether)	mg/kg	, 5	N.D.
PBBEs(PBDEs)(Hexabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Heptabromobiphanyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Octabromobiohenyl 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

cal Laboratory.

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.

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www.cn.sqs.com e sgs.china@sgs.com



No. SH6046093/CHEM

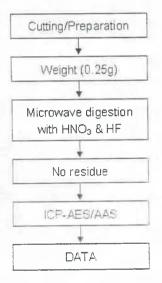
Date: Apr.24,2006

Page 4 of 5

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

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t (86-21)61402666 * 2720 t (86-21)61402553

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



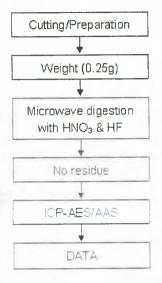
No. SH6046093/CHEM

Date: Apr.24,2006

Page 5 of 5

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 ***

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SHCHEM 732595

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

t (86-21)61402666 * 2720 t (86-21)61402553

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



No. SH6046093/ CHEM

Page 1 of 1

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

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> t (86-21)61402666 * 2720 10/F, 3rd Building, No.889, Yishan Road, Shanghai, China 200233 t (86-21)61402553

f (86-21)54500314 www.cn.sgs.com e sgs.china@sgs.com f (86-21)54500314

SHCHEM691021



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

Testing Period

Sample Receiving Date: Apr. 19, 2006 : 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

s Co., Ltd

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SHCHEM 740549

10/F, 3rd Building, No.889, Yishan Road, Shanghai, China 200233 t (86-21)61402666 * 2720 中国·上海·宜山路889号3号楼10层 邮编:200233

t (86-21)61402553

f (86-21)54500314 f (86-21)54500314 e sgs.china@sgs.com



No. SH6046094/CHEM

Date: Apr. 24, 2006

Page 2 of 2

Test Results:

No.	<u>Item</u>	Unit	DL	Α
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 ***

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SHCHEM 740548

Co., Ltd. | 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

t (86-21)61402666 * 2720 t (86-21)61402553

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

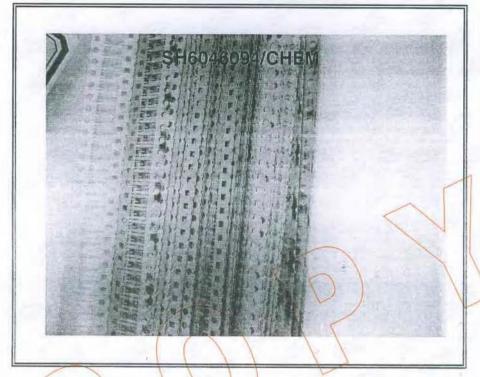
e sgs.china@sgs.com



No. SH6046094/ CHEM

Page 1 of 1

PHOTO **APPENDIX**



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Signed for and on behalf of SGS-CSTC Chemical Laboratory

> Ella Zhang Sr. Section Head

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SHCHEM 691020

t (86-21)61402666 * 2720 t (86-21)61402553

好次编号		T	2		学》	1	WP.	3/6	移	北	化验		-	ent	6.6
2/03	The same of the	Si	Mg	Fa	10	1.	or or		村長		- 0	6倍檢	SEC .		6.6
Torbes	\$90 x 320	010	10.03	0.15	Vann	,	-	Zn	Ti	品粒度	气孔	央杂	放松	製紋	表面质
	690 x 320				·	KDES	Kens	1904	Ke 03	一体	2	R	10	Ă	214
			-	-	-								-	-	
		1	-	-	-	-							1	+	
			1	1	1	1	-+	-	-	1	I		7	1	
		1	I			1	+	1	+	1	文章中	10			
		+	1	1	I		1	1	+	1	发行	4	1	1	
	-	+	+	+	1	1			1	+	+	+	+	+	
心验宣意见:						-	1				1	+	+	+	
子全 <u>多</u>	2 -			Ξ.		13	管部/	意見	-					_	
27.7	多,约	cus	经;	D G			1	" FE	Mag.						

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

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

Elements: Concentration

Quality:6063-T5

NO:	Si	/· Fe	Cu	Mn	Mg
	% 1	%	%	%	%
1	0.4053	0.1663	0.0163	0.0080	0.541
22	0.4128	0.1632	0.0163	0, 0078	0.569
3	11, 4107	0. 1649	0.0155	0.0078	0.570
-1 15	0.4106	.0.1613	0.0156 -	0.0079	0. 568
15	0.4117	0.1620	0.0153	0.0078	0. 672
NO	Zn	Ni	Cr ·	Pb	Sn
	%	%	%	4/0	%
1	<0.0100	0.0051	0.0032	0.0018	< 0.0010
3	-0.0100	0.0051	0.0031	0.0017	<0.00100
	-0.0100	0.0052	0.0031	0.0016	<1) 0100
-1	< 0.0100	0.0050	0.0031	0.0015	< 0.0010
4	-0.0100	0.0050	0.0031	0.0016	<0.0010
NO	Ti	Bi	Zr	A1	
131.5	%	%	%	%	
1	0.0164	<0.0010	0.0010	98.8	
1	0.0154	< 0.0010	0.0010	98.8	
	0.0150	< 0.0010	0.0010	98.8	
1	0.0155	< 0.0010	0.0010	98.8	
	0.0150	0.0010	0.0010	98.8	
500	200000000000000000000000000000000000000	AND CONTRACTOR		180	

Program: AL 6000 Comment: Al alloys global

Avigange (nº 5)

Sample Not-063--BG04208 [53mm] Sample Not-4ADE IN BAH (AIN

> Si Fe 25 11/4 £ 2000 ' 0.1635 0.410 0.3500 0, 600 Zn Ni 1/0 % 0.0100 0,0051 1, 1000 Ti 131 174 % < 0.0010 1.0155 1.1000 有照样



Mn Mg Cu 9% 9% 0.4500 0.0079 0, 569 0.0154 0.900 0.1000 0.1000 Sn Pb (r 0/0 % % 0.0016 <0.0010 0.0031 0.1000 11 7. 96 9% < 0.0010 98. 8

测试人: E华桥



测试报告

编号: GZSCR050531917/LP 日朝: 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"散热片"的样品所做的划试

SGS参考编号

: SZ050508915EC

收板日期

1 2005年5月24日

测试日期

+ 2005年5月24日至2005年5月30日

瀕 试 要 求

:(1)委托样品中的铅、锯、汞和六价铬含量。

(2)委托样品中的多溴联苯、多溴联苯醛的含量。

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。 表含量 -SGS 内部方法,参照 EPA 方法 3052: 1996。 六价络含量 - 参照 EPA 方法 3060A:1996 和 7196A:1992。 分析仪器为电够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;清参见下一页

Signed for and on behalf of SGS-CSTC Ltd.

Xie YongBiao, Sam Lab Manager

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Sangta PercoCorne atropo-

SGESSTESS SECTION FOR STATE ST 1185-56182165000 1/08-2045159658 a sgrich maßings.com 中國。广州、天河区东南珠村员山路裕景工业园八栋四楼 邮编:510650



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)

1.7	No.1	No.2	No.3
销含量 (ppm)	1.5	18	5
備含量	N.D.	N.D.	N.D.
表含量	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

阻燃剂	No.1	No.2	No.3	检测限
多溴联苯				
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			***	
单溴联苯醚	N.D.	N.D.	N.D.	5 ppm
_ 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 ***

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GZCM 2521147

\$5802 (Shahiri) Travel Server Do Jd. Scorgered Breed-Charles Laboratory.

4Y (3 cdx 6, hulling heastful Familing Shar Rose, Zhu Can Dong Pu Area Tame Charlet Skangstou Chino 510900 1(96-20)(219900 1496-20)(219059) www.spickita.com 中国-广州·天河区东便珠村美山路裕景工业园八将四楼 邮编:510660 1(96-23)60183900 f188-20/82169858 a 1gs-chinglings.com

MINERON PLASTIC SHEEETS



	EAST- FE	100	1000				16 July 10
선	METH (AST 別紅力	M)	UNIT 単位	PVC	HIP	S APE	
34	DS	0)	٥C	1		251	
	DSC	5)	°C	67.5		1	74
4.4	DSC) [†]	°C	62	82	, 65	74
						-	t .
				1.0	1.0	1.2	9.0
		T	%	4.8	. 0	0,5	0.3
1		Ī		1.0	5.2	5.0	4.4
		1		3.9	1.2	2.3	2.3
	D 792	9	/am²	1.4	1.06	1.34	1.27
¥	D 570	1	%	0.64	0.48	0.42	0.48
有度	0 638		ps:	6820	3750	8900	7890
長達	D 638		%	178	25	471	6
Charles and the	D 538	10	ps:	759	100	839	1
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No. 2031519/EG

Date : Aug 06 2005

Page 1

ZHONG FAINDUSTRAL CO FLAT A, SVF , JAIFAT BUILDING 45-17 CONNAUGHT ROAD WEST, HONE KONF

Report on the submitted sample said to be PVC 選明證片。

Item No. Supplied Manufacturin Country of Origin Country of Destination Sample Receiving Date Testing Period

322371 D060714718E 111 P1.00795\$000 分割知慧 TANVAN CHINA JUL 27 2005 JUL 28 - AUG 04 2005

Ten Requested

- To determine the Cadmium Content in the submitted supple. To determine the Least Content in the submitted sample.

 To determine the Markury Content in the submitted sample.
- 2)
- To perermine the Hexavalent Chromium Content on the submitted 3)
- 4) To determine PBBs (polyprominated biphenyls) and PBBEs (Polys mi# 301 siphenylethers) of the submitted sample.
- To determine the Tributyitin (TBR), Triphenystin (TPT) in the sub-time 6) sample.

Test Method

With reforence to BS EN 1122:2001, Method B, analysis was part. (4) Indoctively Coupled Argon Plasma-Atomic Emission Spectrometry

AES) With reference to EPA Method 80508/ 3051/ 3052, Auralysis was performed by Inductively Coupled Argor Plasms-A-

Emission Specifornitry (ICP-AES). With reference to EPA Method 3051/3062.

Analysis was performed by Inductively Coupled Argon Plasma-Att. II Emission Spectrometry (ICF-AES)

With reference to EPA Method 3060A & 7196A.

The secondes work affecting discrete by uting EPA Machine 306.34.

dr LC/ MS.

With reference to DIN 38407-13. Analysis was performed by GC/1

Test Results

福祉(1) 2大 31.1

1-3) Please refer to next page.

Signed for and on behalf of SG3 Hone Kons Ltd

He Ka Ting Family Laboratory Executive

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Die Jean Feld in Prangerin Burt Stangman, Dr. m. inn States i fic "Enternance in-MARKET LESTERENCH EN コニー 記 当州将や津鈴県士道大厦3銭

7 3 4 4 10 to the firm Member of SGS Store 100



No. 2031519/EC

Date : Aug 06 2005

Page .

Test Results

Test Heautts	Transparent Plastic	Detection Limit
Test Item	ND ND	2 opm
1) Cadmium (Gd) 2) Leed (Pb)	ND ND	2 ppm 2 ppm
3) Mercury (Hc)	ND	2 opm

(Results shown are of the total weight of samples)

Note: ppm = ng/kg

ND = Not Determine Not retained to the control of t

5)/	Transparent Plastic	Detection Lim
Flame Retardants	Transportation	A
Polybrominated Biphenyls (PBBs)		5 ppm
Manabremobiphenyl	ND	5 ppm
Dibremebipheny	NDI	5 ppm
Tribromobiphenyl	ND	1 u ppm
Tetrabromabippeny!	ND	-5 pom
Pentabromobiohenyl		5 com
Hexabromobidhenyl	ND ND	5 opm
Heptabro nobiphenyl	- ND	5 ppm
Octabromobipheny	100	5 ppm
Nonabromooiphenyi	NO	the state of the s
Decapromotioneny		5 ppm
Polybrominated Diphenylethers (PBDEs) /	100	
Monabromodiohony ethe	ND	3 ppm
Dibromodiphenyl other	ND ND	5 ppm
Tab prodictiony edier	ND	5 opm
Tetrabromodipheny) ether	NO:	5 ppm
Pentabromodiphenyl ethe:	ND	5 ppm
Hexapromodispany ather	ND	5 port
Hoptabromodiphenyl ether	ND	5 ppm
Octabromod phenyl sther	ND	5 ppm
Nonabromod phenyl ether	I ND	5 ppm
Decablowed the ethal	ND	5 ppm

ND + Not Det=2e3

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

Test Item	Transparent Plastic	Detected Limit
Tributyilin (TBT)	ND	0.02 ppm
Triphenyltin (TPT)	ND	Q.Q2 ppm

Note: ppm = mg/kg

HICKLORES IN

ND = Not Detected

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

Remark: Tost was conducted in SGS Hong Kong Limited

*** End of Report ***

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aid Conditions are also diju terristional policies i sample(s) are recained

Member of \$35 Gm.

5ZE 11311

162 S. a. de Jacobierto

长春

長春人造樹脂廠股份有限公司 台北市10477松江路三舉一號七樓

CHANG CHUN PLASTICS CO.,LTD.

TLX-2255 LONGLITE NO.)
CABLE ADDRESS: LONGLITE TAPE!

T. TICHAN

NO. 301 SONORIANG ROAD, 7FL TAIPEL 10477 TAIWAN

FAX: (02)25033378 TEL: (02)25038131

林貞寶明 MATERIAL FORMULATION CONFIDENTIAL REPORT

疫冠 Customar:

可質名稱 Type of Muterful: PBT (Poly Butylens Terephthalate) 聚丁烯對苯二甲酸醌

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

說明 Description

范徵號 PBT 4815 & 4820 & 4830 & 4115 & 4120 & 4130 差成如下;

規 格	PBT Resin CAS NO. 26062-94-2	Flame Reserdant CAS NO. 68928-70-1	Flame Retardant CAS NO. 71342-77-2	Antimony Trioxide CAS NO. 1309-64-4	Glass Fiber CAS NO. 65997-13-3	Additives CAS NO.
4115	58.5	16.5	4	5	15	•
4120	53.5	16.5			20	
4130	46.5		14	4.5	- 30.00	3
4815	66	11	-	4.3	30	5
4820			-	3	15	_ 5
	61	11		3	20	5
4830	52.5	10		2.5	30	5

供應度 MATERIAL SUPPLIER

Company CHANG CHUN PLASTICS CO. LTD.

Signature Still and Da

Address: No.14 KUNG-YEH IST RORD, JEN-WU INDUSTRIES DISTRICT.

KACHSIUNG, TAIWAN, ROC.

Date: NOV 5, 2004



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.

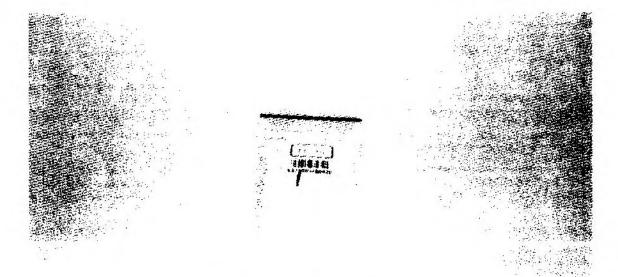
TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122 :2001 or other acid digestion.	2	n.d.
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	n.d.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	n.d.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	n.d.
PBBs(Polybrominated biphenyls)			(
Monobromobiphenyl	%		0.0005	n.d.
Dibromobiphenyl	%	other acid digestion With reference to USEPA3540C or	0.0005	n.d.
Tribromobiphenyl	%	1 Marie and annual to LICEBAGE 40C on	0.0005	n.d.
Tetrabromobiphenyl	%		0.0005	n.d.
Pentabromobiphenyl	%	USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by	0.0005	n.d.
Hexabromobiphenyl	%		0.0005	n.d.
Heptabromobipheny!	%	2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.
Octabromobiphenyl	%	(O/TOS/EEC)	0.0005	n.d.
Nonabromobiphenyl	%	1	0.0005	n.d.
Decabromobiphenyl	%		0.0005	n,đ,

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



REPORT NO.KA/2005/B0920

DATE: 2005/11/23 PAGE:3 OF 3



KA/2005/B0920



This Test Roport is issued by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the similarition and Jurisdictional issues defined therein. The results shown in this fest report refer only to the sample(s) lested unless otherwise stated. This Test Report cannot be reproduced except in tall without non-written permission of the Company. In Microsoft except in tall without non-written permission of the Company. In Microsoft except in the Microsoft except in tall without non-written permission of the Company. In Microsoft except in the Microsoft except except

W2196789



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. : 2005/11/17 TO 2005/11/24.

TESTING DATE
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 30508 or other acid digestion.	2	n.d.
PBBs(Polybrominated biphenyls)		***		
Monobromobiphenyl	%		0.0005	n.d.
Dibromobiphenyl	%	As per US EPA 7196A and US EPA 3060A. ICP-AES after reference to US EPA 3052 or other acid digestion. ICP-AES after reference to US EPA 3050B or other acid digestion.	0.0005	n.d.
Tribromobiphenyl	%	146th	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	%	rorros/EEC)	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 Talwan Limited



Fits Test Report is assued by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the limitations of liability, indemnification and Justicification is usual defined therein. The results shown in this test report refer only in the sample(s) tested unlines otherwise stated. This Test Report cannot be reported on the Company of the Company of the sample of the Company of the Company of the sample of the s

TW2197291



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	%	Os & As &	0.0005	n.d.
Dibromobiphenyl ether	%		0.0005	n.d.
Tribromobiphenyl ether	%	With reference to USEPA3540C or	0.0005	n.d.
Tetrabromobiphenyl ether	%		0.0005	n.d.
Pentabromobiphenyl ether	%	USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by	0.0005	n.d.
Hexabromobiphenyl ether	%	2002/95/EC (RoHS), 83/264/EEC, and	0.0005	n.d.
Heptabromobiphenyl ether	%		0.0005	n.d.
Octabromobiphenyl ether	%	76/769/EEC)	0.0005	n.d.
Nonabromobiphenyl ether			0.0005	n.d.
Decabromobiphenyl ether	%		0.0005	n.d.

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

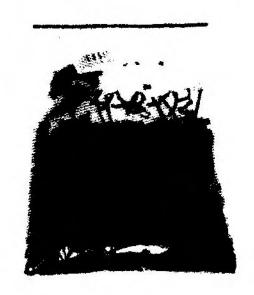
2. DET. LMT = DETECTION LIMIT.

<END>

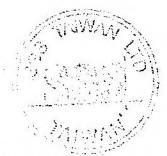




REPORT NO.KA/2005/B0982 DATE: 2005/11/24 PAGE:3 OF 3



KA/2005/B0982



合并 8 SURVEYOR TO 本事 冷粉粉 REMARKS STION ECHESIII 参野 40 哥哥 SPECIFICATION A T * L 竹 署 单 位 CUSTOMER 1 激 TOTAL 7138 POS SAUTO-! B.T. COLD - BUND 1837 古供: 194 DESIGNATION * D-DIAMETER TISSTED WITH SATISTEACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE Œ WE HERRBY CERTIFY THAT MATERIAL DESCRIBED HEREEN HAS MANUFACTURED AND 5.50 10-10 10 五社 ATTAINABLE PRECISION 在广泛巴拉山通来或通常的适应股份,尽信共称令要求,但此证明。 240 海岸 ž 蓝家 5 7 7 HISTITES TO STAND HE THE STANDARD STAND 282420 MASS Or. ₹£262420 * 10" * 10" * 10" * 10" * 10" * 10 = 0 0 CHEMICAL COMPOSITION 6 TS. TENSILE STRENGTH DEC-DECARBURIZATION CUSTOMER ONDER NO. 死华 通 中 % THE WALL DATE OF ISSUE 产品名林 PRODUCT 2 茶类日期 Ca 加工用液:(APPLICATION) G.S. -GRAIN SIZE SER-SUM G.S. *GRAIN SIZE 2005.00.17 916 新なが 海 TENSILE LEST M 17 世 -2月本 DATE OF DELIVERY 8 CONTRACT NO CERTIFICATE NO ZZ1 HUANG XIN BOOT THE 20080 FEUFLE'S REPUBLIC OF CHRIA POST CODE: 20030 TEL:(02)(65384493 65188888 2325 FAX:(92))(65472829 文章日朝 中国中 百分子 THUN OF AREA 34 4 8.1 海海 (man) DEC CS 品な 2005,001,16 S-1858 N U.T. 李本 SF

DUALITY CERTIFICATE 曲

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	TAL COIL 2 11 219KGS LEGEX-SHOPES OF MANUFACTURED BY COMMUNICATION OF MANUFACTURED BY			2 18396 2 18, 219 COOD 66, 9 O. 9	NO. NO. TITEL (I) (APV)	-	NEODILLI : NOOT CONTENT SHEEL	(2)	A
MANAGER OF THEFT AND THE AND T	上記され場けが指定の登場されば分割に従って配置され、その原来等項を構定していることを説明します。 WE HERESY CERTIFT THAT THE MATERIAL HEREIM DESCRIBED HAS BEEN SPECIFICATIONS SPECIFIED BY YOU AND THAT IT SATISFYED AND SPECIFICATIONS		65 22 40 12 9 1 2 14	70 35 60 30 30 25 25 30	C SIMA P S CU NI CR	CHEMICAL COMPOSITION (2)	OSAKA WORKS	NISSHIM STEEL CO., LTD.	②日斯製鋼株式会社



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 铁线 1018

SGS Ref No.

: SZ0507.13984EC

Sample Receiving Date

JUL 19, 2005

Testing Period

JUL 19, 2005 TO JUL 25, 2005

Test Requested

: As specified by client, to determine the Lend, Cadmium, Mercary & Hexavalent Chromium

content in the submitted sample.

Test Method

: Lead content - In house method, with reference to EPA mathod 3050B: 1996 .

Cadmium content - In house method, with reference to BS EN1122 2001 method B.

Analysis was performed by inductively Coupled Plasma Atomic Emission Spectrometer (ICP-

AES) / UV-VIS Spectrophotometer.

RESULTS

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

Hexavalent Chromium Content [Cr(VI)]

NO.1	No. 2
N.D.	N.D.
N.D.	N.D.
N.D.	N.D.
ND	ALD:

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 over earl or attached. Said Conditions are also for 30 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

GZCM 2000 1

EGSCSTC Starriant's Technical Services Co., U.S. Outgrow Branch Chemical Laboratory

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hard er of SGS Group(Societé Générale de Sumellance);



GUANGDONG PROVINCE

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

Report on the submitted samples said to be PC

SGS Job No.

1695299

\$G\$ Ref. No.

SZEC0050101122EC-2.1

Sample Receiving Date

Testing Period

JAN 22 2005 JAN 22-31 2005

Test Requested

- To determine the Cadmium Content in the submitted sample.
- To determine the Lead Content on the submitted sample.
- to determine the Hexavalent Chromium Content on the submitted sample. 4)
- Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated .5) diphenylethers) of 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 (ICP-1)
- As specified in EPA Method 3050B. 2) Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
 As specified in EPA Method 3052.
 - Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
 As specified in EPA Method 3060A & 7196A.
- The samples were alkaline digested by using EPA Method 3060A, and then analyzed by using Colonmetric method 7196A.
 - 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 Fund Mei, Miranda Senior Manager

This Test Report is insued by the Company subject to its General Conditions of Service printed everteal. Attention is drawn to the imministration of flability indemnitration and publicational assume defined inserts. The results shown in this lest report refer only to the sample(s) tested unless columnise stated. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.

5/F grt 8 28/F 25/F Metricule Square, 2 On You Street, Souter Youn, Shaller N.T., many range 1 6509, 2709 4491 1 6559 3709 4197. Growth Agricum



No. 2012293/EC

Date : Feb 02 2005

Page 2 of 2

Test Results

Element

1) Cadmium (Cd)

2) Lead (Pb)

3) Mercury (Hg)

4) Hexavalent Chromium (Cr 6+)

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

A STATE OF THE STA STORESTON ...

Detection Limit Black Plastic (PC) Polybrominated Biphenyls (PBBs) Monobromobiphenyl ND 5 ppm ND. Dibromobiphenyl 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 Polybrominated Diphenylethers (PBDEs) 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

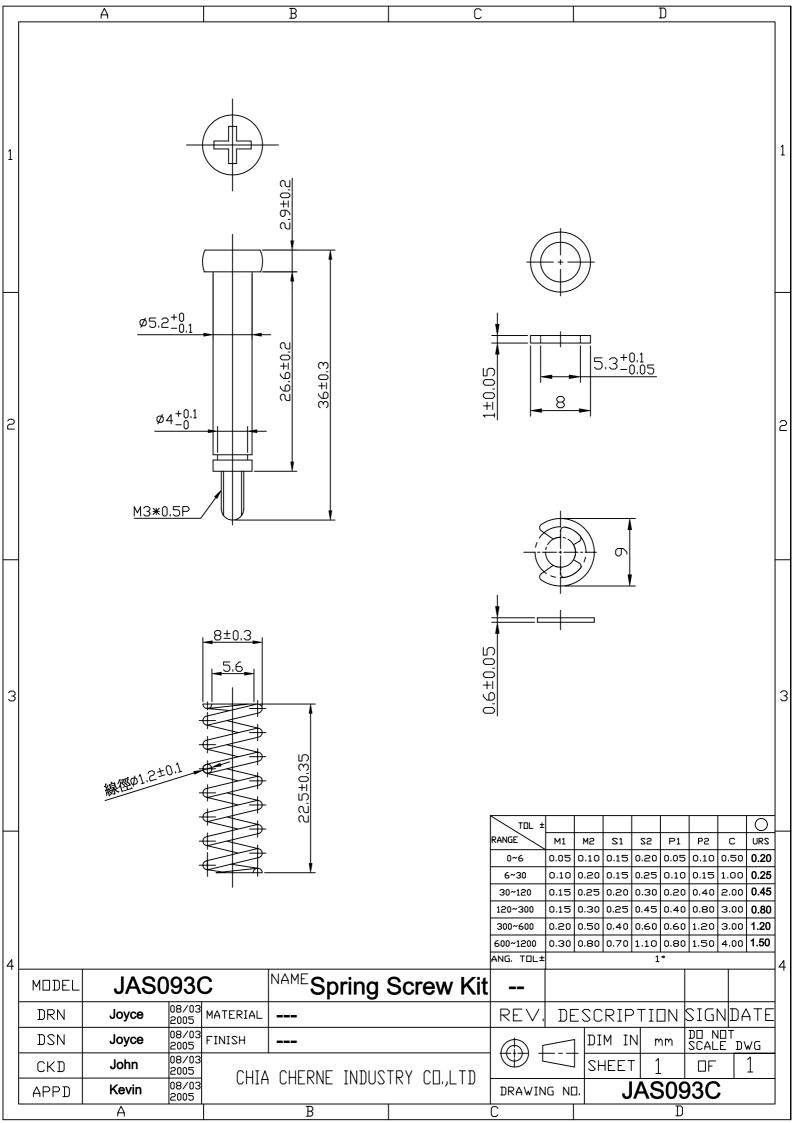
Non-detected is lower than detection limit value.

*** End of Report ***

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504 - 804 8-2847 - 2904 - Metuopole Squaro, 2-On You Street, Siu Liek Yuen, Shetin, N.T. Hang Kong it (853) 2332-4481 - F (850) 2364-31015 - www.his.com.com

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中国館鐵界仍有限公司 CHINA STEEL CORPORATION

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华西工展展的市界公司 CHUN YU WORKS & CO., LTD. 1.CHIA MSIN Rb., CHIA MSIN LI, KAND

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SPECIFICATION

D D TEST CERTIFICATE 答 思 10 hb

中等民國共立市小港區中央時] 就 LIN HAI INDESTRIAL DISTRICT P. O. BOX 卓型 BSIAO KANG. KAOHSIUNG(812), TAI WAN, REPUBLIC OF CHINA TELEX: 71105. 71283, 71415 KAOHSIUNG TEL: (07)802-1111 FAX: (07)803-0927 点

ROD-CARBON STEEL 903-0927 80170-027 90181

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REMARKS

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SCRYETOR TO

). CHIMICAL ANALYSIS IS CARRIED OUT BY CSC IN ACCORDANCE WITH TEST METHOD ASTWEATS AND ETOTS WHICH CONFORM TO METAL STANDARDS AND SPECIFICATIONS.

TEST SAMPLES ARE DISC TYPE (9) TEST REPORT RELATES ONLY TO THE SAMPLES BEING TESTED LWD THAT SHALL NOT BE DARITALLY RESPRODUCED.

電路競斗を長所列鹿品・均供料料規格製造及に数・丝符合規格之序共・WE FEREBY CERTITY THAT MATERIAL DESCRIBED FEREIN KAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE NATERIAL SPECIFICATION.

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Section 1

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19 2002 07:28PM P1

QUALITY CERTIFICATION

品質證明書

Custermer					
4.0	温豪	Order NO.		Date	0000
Specification	CIALCHAD	Process No		日期	2003/3/28
规格 Standard	SW-C LZUMM	製造工令	M30314	Q.A. De	Q.A. Department
佐雄標準		JIS G 3521	- 4	a de la companya de l	3.株
Characteristic 項目	Diameter (mm)	Ovality (mm)	T.S. (kg/mm^2)	Twist No.(turns)	Wrapping
Standard Values		T- MAG	机妆强度	日本教	格校测试
標準值	1.20(-0.015)	0.005MAX	195~220	2000	
Average results	1 193	00000		Nimos	G000
Chamical Anatonia		0.003	203	45	AN
成份分析	o	S	Mo		4
Standard Values	0.70,000	The state of the s		4	S
標率値	0.78~0.86	0.15-0.35	0.30-0.60	003MAX	00000
lest Kesuits 凝試平均备	0.83	0.22		5	U.U.SIMAX
		27.0	0.49	0.018	

apping test is suitable for the wire diameter less than 0.5mm. 註:搖幾湖試適用線徑小於0.5回受抽網線

Spring Spring Spring

Spring Yi Industrial Co.,LTD



JA 5 09 3 C-

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 Sample Received : SAE1018-Ni

Testing Date

2004/07/27

2004/07/27 TO 2004/08/03

Test Result

PART NAME NO.1

SILVER COLORED METAL

	2					Result	
Test Item (s):	Unit	Method	MDL	No.1			
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2 /	N.D.			
Cadmium (Cd)		ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.		2 0 4 5 mm 1	
Mercury (Hg)	11	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.	- 10 mag		
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.		27.3			

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

. (3) MDL = Method Detection Limit

TANVAN LTD.

TW 0975158

No. 136-1 Wu Kung t (886-2) 2299-393

strial Zone, Taipai County, Taiwan. /台北縣五股工業區五工路136-1號 f (886-2) 2299-3237 www.tw.sgs.com



766097 C->

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

: 2004/08/03 Date

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

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

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

TW 0975156

\$38 Talwan Ltd. No. 138-1 Wu Kung Road, Wisks 台湾被被計技股份有限公司 1886-21 2289-3939 工業區五工路136-1號



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

: 2005/09/07 Date

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

: 2005/08/31 TO 2005/09/07 <u>Testing Date</u>

Test Result

PART NAME NO.1 : SILVER COLORED METAL

(Do-4 74 (-)	TT14	75-41-4	BATOT	Result
Test Item (s):	Unit	Method	MDL	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.

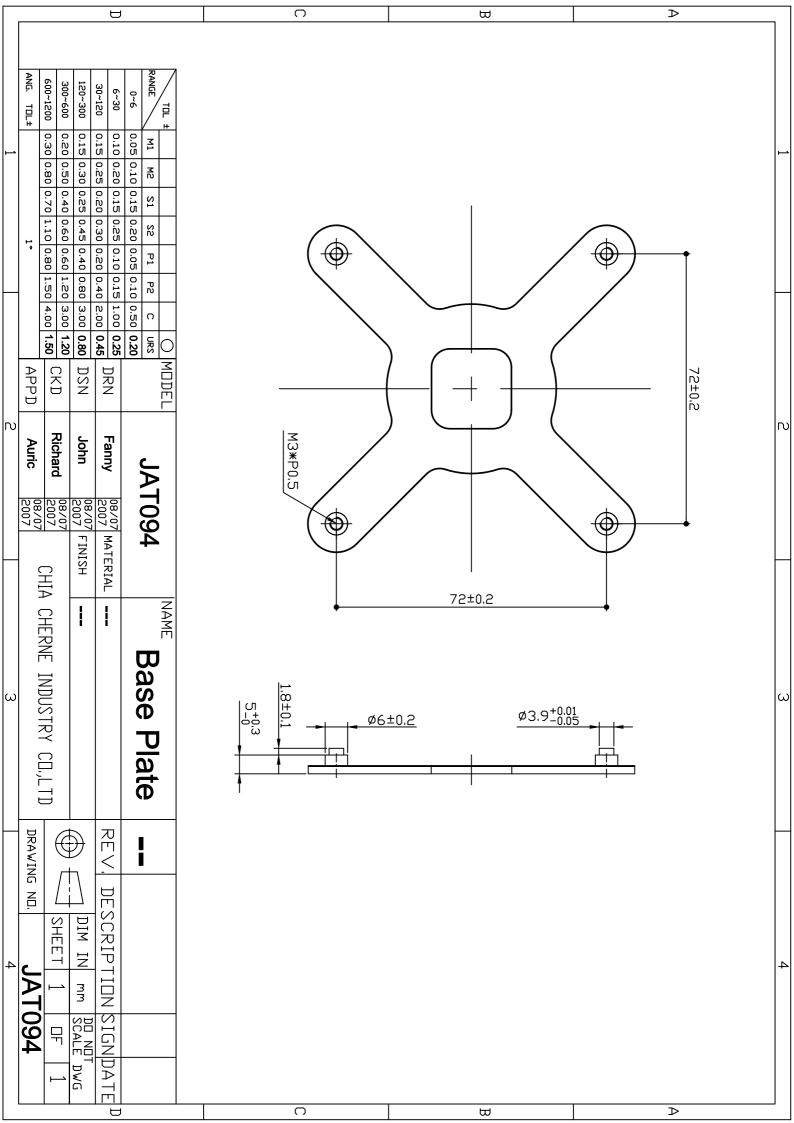
NOTE: (1) N.D. = Not detected (<MDL)

Signed for and on behalf of SGS TAIWAN LTD.

(2) ppm = mg/kg(3) MDL = Method Detection Limit

Operation Manager

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water 等最份有限公司 VBLIDGE BITTER CO.III.

# STOTOS		發明書紙號 CENTENCATE NO.	35004020	使机车 D 格 DSUB DATE	2002-04-02
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	划	BEAT NO.		45553 60968 45059 517215 0054706		故证明本表所列製品,均保材料观船就及试验,进桥合规格之要存。 WE HERRBY CERTIFY THAT MATERIAL DESCRIPED HARSON ITAS BEEN MANUFACTURED AND TESTED WITH
1	*	K S				My Ke
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T	Q Z	I	H			# をままの有限なり mentoows symmersessoc.tm 簡 決傷

DEPUTY SUPPRINTENDENT, CHAMBELING WURES

SATISTACTORY RESILEDS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.

3M

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) 4.0 mils (100 microns)

#200MP "Hi-Performance" 58# Tan Polycoated

Acrylic Adhesive Kraft Paper

468MP 5.0 mils (125 microns) 4.0 mils (100 microns)

#200MP "Hi-Performance" 58# Tan Polycoated

Acrylic Adhesive 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.

20 Min. Dwell

72 Hr. Dwell

Physical Properties

(Typical values – not for specification use)

ASTM D-3330 (modified) 90 degree peel, 12"/min. (305 mm/min) 2 mil aluminum

	Product	Oz./In.	<u>N/100 mm</u>
- 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

	Product	<u>Oz./In.</u>]	<u>N/100 mm</u>	Oz./In.	<u>N/100 mm</u>
- Metal (Stainless Steel)	467MP	82	90	113	124
	468MP	109	119	178	194
- High Surface Energy Plastic	467MP	47	51	43	47
(ABS)	468MP	61	67	58	63

- Low Surface Energy Plastic (Polypropylene) Not Recommended

Ultimate Bond

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 Bond strength generally increases after cycling four times through:

Resistance: 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

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

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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	
比重	1.4± 3 % △ 含 □ 不含色料 (ASTM D-792-66)
拉力強度	350 - 450 KG/C m² (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 m² (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)



JA 5 093 C-

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
Sample Received

: SAE1018-Ni

Testing Date

: 2004/07/27

: 2004/07/27 TO 2004/08/03

Test Result

PART NAME NO.1

SILVER COLORED METAL

Test Item (s):	2			Result				
	Unit	Method	MDL	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.			0000 . To . 50	
Mercury (Hg)		ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.	o se en de p			
Lead (Pb)		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

Dentity on, M.R. Poperation Manager Signed for and on behalf of SGS TAWAN LTD.

This Test Report is issued by the Company subject to its General Conditions of Service printed overland. 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 LA, without prior written permission of the Company, 数据序是通过工程的 Test Report Cannot be reproduced; except in LA, without prior written permission of the Company, 数据序是通过工程的 Tested Prior Cannot be a prior to the Company of the Company of the Company of the Cannot be a prior to the Company of the Cannot be a prior to the Cannot be a pr

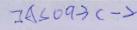
TW 0975158

SSS Talwan Ltd.

No. 136-1 Wu Kung Road, Wuku Industrial Zone, Taipei (1 (886-2) 2299-3939 f (886-2) 2298-3

strial Zone, Taipai County, Taiwan. /台北縣五股工業區五工路136-1號 f (886-2) 2299-3237 www.tw.sgs.com

Momber of SSS Group





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

: 2004/08/03 Date

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

		Method		Result				
Test Item (s):	Unit		MDL	No.1				
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.	7			
Cadmium (Cd)		ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.				
Mercury (Hg)		ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.				37 100 2 300
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.		40.3				

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

TW 0975156

888 Telwan Ltd. No. 138-1 Wu Kung Road, Wisky In 台灣檢檢科技股份有限公司 8 (886-2) 2298-3938 工業區五工路186-1號



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

: 2005/09/07 Date

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

: 2005/08/31 TO 2005/09/07 <u>Testing Date</u>

Test Result

PART NAME NO.1

: SILVER COLORED METAL

	TT :: *4	Unit Method		Result
Test Item (s):	Unit			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

Operation Manager Signed for and on behalf of SGS TAIWAN LTD.

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日本工作版を有限公司 CMETATA COLLITA BRA SEC Z. CHURG HEAN ND. CHANG LI, TADYUMN SAE 121EMS (STOQ) CN. HILL INSPECTION TOTAL CN. HILL INSPECTION TOTAL TOTA
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音楽工業所の有限公司 CMS-LIA 等TML CD. LID. BB. SEC 2. CHURG MEAND
音楽工会所の有限公司 CANGLIA MTAL OD. LVE NO. NGC 2 CHING DRIA ND
ルだへのサクケ権ンに



TEST REPORT NUMBER : THJ0013374

APPLICANT: TONG YU INDUSTRY CO., LTD DATE : JAN 06, 2006

NO2-32 LANE 518 SEC 3 CHUNGSHAN RD

CHANGHUA CITY CHANGHUA COUNTY 500

TAIWAN R.O.C.

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

TACOR LIN

JACOB LIN GENERAL MANAGER



NUMBER : THJ0013374

TESTS CONDUCTED

(A) TEST RESULT SUMMARY:

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

REMARKS : ppm = PARTS PER MILLION

ND = NOT DETECTED

(B) TEST METHOD:

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

REMARK: REPORTING LIMIT = QUANTITATION LIMIT OF ANALYTE IN SAMPLE ************************ END OF REPORT



3M TAIWAN LTD. Report No : CE/2004/32425

NO.66, LANE 800, CHUNG SHAN S. RD, YANGMEI, Date : 2004/03/19

TAOYUAN HSIEN, TAIWAN, R.O.C. Page : 1 of 2

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

<u>Type of Product</u>: 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

<u>Test Result</u>: - Please see the next page -

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



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

				Result				
Test Item(s):	Unit	Method	MDL	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.

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Ø 001/003

Test Report

To. 李品樣小吧

From: = Pit

报告號碼 : CE/2005/62169A

日期 : 2005/06/16

: 1 of 4

以下到試際品乃供應應商所提供及確認:

統品名稱

PVC硬質腦布

收件日射

2005/06/09.

型試口期

2005/06/09 TO 2005/06/16

测試岩果

: - 請見下一貫 -

Signed for end on behalf of SES TARWAN LTD.

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100 Type Man (Line Page 1) 129-329 中央 (Target Dayler Dayler 1) 200-100 (MRE A 1) 129-329 中央
BOUSTTE 20'

四一時後後回版: 2009 2: 1 : 1-1-9 -58

To \$00 元 1.40.

From 報告振篇: CE/2005/62169A
□第 : 2005/06/16
□第 : 2 of 4

: 2 of 4

图式部位 NO.T

透明显显片(始急州附件图片)

测纯项目:	型位	西文章	位到在配位	結果
一次等苯	1 2			NO.T
二次研章	9	┥ .	0,0005	N.O.
三溴酚盐	1	1	0.0005	N.D.
四溴磷苯	1 4	本面式多类USEPA3540C 文	0.0005	N.D.
工	1 1	USEPA355UC方法,以氣相層析旋/質	0,0005	N.D.
六俣将苯	-	T留南(GC/US)或两处和和用所是/一	0.0005	N.D.
七块事本	- ×	複類原列便想稱/預書後	0.0005	N.D.
八孫周宏	1	(HPLC/UAD/IS)检测之(多考欧型规	0.0005	N.D.
九层縣苯	2	章 2002/95/EC (RoHS) ,	0.0005	N D.
十烷哪定	*	83/264/EEC. 76/769/EEC)	0.0005	N.U.
等多沒有本(PBBs)/以上参	×		0.0005	N.D.
一只师龙雕	8			
其哪里到	8	1	0.0005	N,D.
沒等学配	*		0.0005	N.D.
探察革務	Š	本则成金号USEPA3540C 或	0.0005	N.D.
復降金融	- 4	USEPA3550C方法·以気相層新提/宣	0.0005	N.D
识梅苯亚	*	弱氓(GC/MS)或高效验相周标选/一 L	0.0005	N.D.
優勝幸強	-	函型四列值例第/查詢監	0 0005	N.O.
没听 幸难		(MPLC/DAD/MS)检测之(稳分除的统一	0.0005	N.D.
復騎苯醚		2002/95/EC (ROHS) ,	0.0005	МП
免群幸呕	* 1	3/264/EEC. 76/769/FEC)	0.0005	N.D.
多現場末壁 Bigs:/PBDEs)/以上國和	*		0.0005	N.D.

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一个个意外地

From: 3/72 7 \$

Test Report

帮告號碼; CE/200! 月期 : (2005/CP 頁取 (3 of 4)

別試項目:	平位	测試方法	值到製配值	全界 20.1
六價吳	bew	依照US EPA 1080A方法. 用UV-VISAE 分析	2 .	N.D.
99	ppm	依照 EM122 万法8:2001 载其他胜 得化方法,用感应联合链浆原于聚射 光路像(IDP-ALS) 做分析	2	O.W
汞	bba	使知 US EPA 3052 方法或实他医院 化方法,用癌應确合毛须属于鉴射光 話儀(ICP-AES) 散分析	2.	מ. וע
発	bían	使無 US EPA 3050R 方法或其他政 消化方法,用癌肠漏合使暖原子强射 光譜堡(10P-RE)做分析	2	W.D.

俗註: (1) N.D. = Not detected.(<NDL) / 未检出(低於伯測揮降值)

- (2) ppm = mg/kg / 百两分之一
- (3) MUL= Method Detection Limit(信測被限位)
- (4) " -" = Not Regulation / 無規裕值



藝祺有限公司 報告號碼: CE/2005/95071

彰化縣埔鹽鄉彰水路一段107號 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

<u>收件日期</u> : 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	偵測極限値	結果
/ / / / / / / / / / / / / / / / / / /	平位	例畝万法	很例極於個	NO.1
六價鉻	ppm	依照US EPA 3060A方法,用UV-VIS 做分析	2	N.D.
编	ppm	依照 EN1122 方法B:2001或其他酸消化方法,用感應藕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,用感應藕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,用感應藕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 Manage Signed for and on behalf of

SGS TAIWAN LTD.



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	penetration un-worked :	
Oil bleed (120°C / 24hrs)	%	0.00
Specific Gravity		2.45
Thermal Conductivity	Cal / cm · 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	4.8×10^{14}
Dielectric Strength	kV / 2.5mm	22

Properties of SC102 in comparison with SH340

SC102	SH340 ^a)
0.09/	3.0%
0.9%	3.0%
None	observed
None	observed
No shanga	No change
No change	No change
	SC102 0.9% None 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.



SIL-MORE INDUSTRIAL LTD.

Report No. : CE/2005/81840

16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY,

: 2005/08/15

TAIPEI COUNTY, TAIWAN, R. O. C.

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Date

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

<u>Testing Date</u> : 2005/08/09 TO 2005/08/15

<u>Test Result</u>: - Please see the next page -

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

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TAIPEI COUNTY, TAIWAN, R. O. C.

Report No. : CE/2005/81840

Date : 2005/08/15

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Test Result

PART NAME NO.1

WHITE COLLOID (PLEASE REFER TO THE PHOTO ATTACHED)

M4-T4 (-)	TT 14	70F - 43L 3	MDI	Result
Test Item (s):	Unit	M ethod	MDL	No.1
Monobromobiphenyl	%		0.0005	N.D.
Dibromobiphenyl	%	1 1	0.0005	N.D.
Tribromobiphenyl	%	1 1	0.0005	N.D.
Tetrabromobiphenyl	%	With reference to	0.0005	N.D.
Pentabromobiphenyl	%	USEPA3540C or	0.0005	N.D.
Hexabromobiphenyl	%	USEPA3550C. Analysis was	0.0005	N.D.
Heptabromobiphenyl	%	performed by HPLC/DAD, LC/MS or GC/MS.	0.0005	N.D.
Octabromobiphenyl	%	(prohibited by 2002/95/EC	0.0005	N.D.
Nonabromobiphenyl	%	(RoHS), 83/264/EEC, and	0.0005	N.D.
Decabromobiphenyl	%	76/769/EEC)	0.0005	N.D.
Total	%	1 1	-	N.D.
PBBs(Polybrominated				
biphenyls)/Sum of above				
Monobromobiphenyl ether	%		0.0005	N.D.
Dibromobiphenyl ether	%		0.0005	N.D.
Tribromobiphenyl ether	%		0.0005	N.D.
Tetrabromobiphenyl ether	%	With reference to	0.0005	N.D.
Pentabromobiphenyl ether	%	USEPA3540C or	0.0005	N.D.
Hexabromobiphenyl ether	%	USEPA3550C. Analysis was	0.0005	N.D.
Heptabromobiphenyl ether	%	performed by HPLC/DAD,	0.0005	N.D.
Octabromobiphenyl ether	%	LC/MS or GC/MS.	0.0005	N.D.
Nonabromobiphenyl ether	%	(prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
Decabromobiphenyl ether	%		0.0005	N.D.
Total PBBEs(PBDEs)(Polybromin ated biphenyl ethers)/Sum of above	%	1 -,,,	-	N.D.

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M = 4 74 = == 4 - 1	TT 14	77 - 41 1	MDI	Result
Test Item (s):	Unit	M ethod	MDL	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



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