

BRADY B-966B CLEAR POLYESTER OVERLAMINATING TAPE

TDS No. B-966B
Effective Date: 10/05/2022

Description:

GENERAL

Print Technology: None

Material Type: Polyester

Finish: Gloss

Adhesive: Permanent acrylic

APPLICATIONS

Brady B-966B is used for overlamination. Its release coated surface allows B-966B to be used in the Brady PermaShield label construction.

REGULATORY APPROVALS

For information on the Weee-RoHS compliance status for a Brady Product go to one of the following websites:

In Canada: www.bradycanada.ca/weee-rohs

In Europe: www.bradyeurope.com/rohs

In Japan: www.brady.co.jp/products/labelsuse/rohs

All other regions: www.bradyid.com/weee-rohs

SPECIAL FEATURES

Brady B-966B has excellent clarity and abrasion resistance, as well as very good high temperature and solvent resistance.

Details:

| PHYSICAL PROPERTIES | TEST METHODS | AVERAGE RESULTS |
|----------------------------------|--|--|
| Thickness | ASTM D 1000 -Substrate -Adhesive -Total (excluding liner) | 0.0015 inch (0.038 mm) 0.0014 inch (0.035 mm) 0.0029 inch (0.073 mm) |
| Adhesion to: -Stainless Steel | ASTM D 1000 20 minute dwell 24 hour dwell | 35 oz/in (38 N/100 mm) 50 oz/in (55 N/100 mm) |
| Tack | ASTM D 2979 Polyken™ Probe Tack 0.5 second dwell | 11 oz (300 g) |
| Tensile Strength and Elongation | ASTM D 1000 -Machine Direction | 30 lbs/in (525 N/100 mm), 55% |
| Abrasion Test | Taber Abrader, CS-10 grinding wheels, 1000 g/arm (Fed. Std. 191A, Method 5306) | Material still not worn through after 5000 cycles |
| Application Temperature | Lowest application temperature to stainless steel | 50°F (10°C) |

B-966B samples for Performance Properties were tested applied directly to aluminum panels and overlaminated over Brady B-619 white polyester. Samples allowed to dwell 24 hours at room temperature prior to testing.

| PERFORMANCE PROPERTIES | TEST METHODS | TYPICAL RESULTS |
|--------------------------|--|--|
| High Service Temperature | 30 days at various temperatures | Slight adhesive yellowing at 120°C, no visible effect at 100°C |
| Low Service Temperature | 30 days at -94°F (-70°C) | No visible effect at -70°C |
| Humidity Resistance | 30 days at 100°F (37°C), 95% R.H. | No visible effect |
| UV Light Resistance | 30 days in UV Sunlighter™ 100 | Slight adhesive blistering |
| Weatherability | ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer | Slight adhesive blistering |
| Salt Fog Resistance | ASTM B 117 30 days in 5% salt fog solution chamber | No visible effect |

| PERFORMANCE PROPERTY | CHEMICAL RESISTANCE |
|----------------------|---------------------|
|----------------------|---------------------|

Samples were tested applied directly to aluminum panels and overlaminated over Brady B-619 white polyester. Samples were allowed to dwell 24 hours at room temperature prior to testing. Testing consisted of 5 cycles of 10 minute immersions in the specified chemicals followed by 30 minute recovery periods. Testing was conducted at room temperature.

| CHEMICAL REAGENT | SUBJECTIVE OBSERVATION OF VISUAL CHANGE |
|--------------------------------|--|
| Methyl Ethyl Ketone | Slight edge discoloration on B-619, slight edge lift of B-966B |
| 1,1,1-Trichloroethane | Slight edge lift |
| Isopropyl Alcohol | No visible effect |
| JP-4 Jet Fuel | No visible effect |
| SAE 20 WT Oil | No visible effect |
| Mil 5606 Oil | No visible effect |
| Speedi Kut Cutting Oil 332 | No visible effect |
| Gasoline | Slight adhesive ooze |
| Skydrol® 500B-4 | Slight edge lift |
| Super Agitene® | No visible effect |
| BIOACT® EC-7R™ Terpene Cleaner | Slight adhesive ooze |
| Deionized Water | No visible effect |
| 3% Alconox® Detergent | No visible effect |
| 10% Sodium Hydroxide Solution | No visible effect |
| 10% Sulfuric Acid Solution | No visible effect |
| 6% Alpha 2110 at 70°C | No visible effect |

Shelf Life:

Shelf life is two years from the date of receipt for this product as long as this product is stored in its original packaging in an environment below 80° F (27° C) and 60% RH. It remains the responsibility of the user to assess the risk of using this product. We encourage customers to develop testing protocols that will qualify a product's fitness for use in their actual applications.

Trademarks:

Alconox® is a registered trademark of Alconox Co.
 BIOACT® is a registered trademark of Petroferm, Inc.
 EC-7R™ is a trademark of Petroferm Inc.
 Polyken™ is a trademark of Testing Machines Inc.
 Skydrol® is a registered trademark of the Monsanto Company
 Sunlighter™ is a trademark of the Test Lab Apparatus Company
 Super Agitene® is a registered trademark of Graymills Corporation
 ASTM: American Society for Testing and Materials (U.S.A.)
 SAE: Society of Automotive Engineers (U.S.A.)
 All S.I. Units (metric) are mathematically derived from the U.S. Conventional Units.

Note: All values shown are averages and should not be used for specification purposes. Test data and test results contained in this document are for general information only and shall not be relied upon by Brady customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact Brady for further information.

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