Technical Data Sheet

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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