

BRADY B-969B MATTE METALLIZED POLYESTER LABEL STOCK

TDS No. B-969B
Effective Date: 11/16/2020

Description:

GENERAL

Print Technology: Dot matrix
Material Type: Metallized polyester
Finish: Matte
Adhesive: Permanent acrylic

APPLICATIONS

Brady B-969B is used primarily as an identification label or rating plate material.

RECOMMENDED RIBBON

Brady Series R5000

REGULATORY

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-969B has good smudge resistance, solvent resistance and high temperature performance.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total (excluding liner)	0.0027 inch (0.051 mm) 0.0020 inch (0.051 mm) 0.0047 inch (0.120 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	65 oz/inch (71 N/100 mm) 78 oz/inch (85 N/100 mm)
-Textured ABS	20 minute dwell 24 hour dwell	21 oz/inch (23 N/100 mm) 25 oz/inch (27 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	25 oz/inch (27 N/100 mm) 40 oz/inch (44 N/100 mm)
Application Temperature	Lowest application temperature to stainless steel	50°F (10°C)

The following testing is performed with B-969B printed with Brady Series R5000 ribbon then laminated to an aluminum panel. All samples were allowed to dwell 24 hours at room temperature before exposure to the indicated environments.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
High Service Temperature	30 days at 120°C	No effect to label or print
Low Service Temperature	30 days at -94°F (-70°C)	No visible effect to label or print
Humidity Resistance	30 days at 100°F (37°C) and 95% R.H.	No visible effect to label or print
UV Light Resistance	ASTM G155, Cycle 1, Dry 30 days in Xenon Test Chamber	Slight discoloration of label; No visible effect to print
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weather-Ometer®	No visible effect to label; slight fading of print
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 500 g/arm (Fed. Std. 191A, Method 5306)	Print legible after 250 cycles

PERFORMANCE PROPERTIES	SOLVENT RESISTANCE
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Samples were printed with the Brady Series R5000 ribbon, laminated to aluminum or PET panels and allowed to dwell 24 hours prior to testing. Test was conducted at room temperature except where noted. Testing consisted of 5 cycles of 10 minute immersions in the specified test fluid followed by a 30 minute recovery period. After final immersion, samples rubbed 10 times with a cotton swab saturated with test fluid.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE		
	EFFECT TO LABEL STOCK	EFFECT TO R5000 PRINT	
		WITHOUT RUB	WITH RUB
Methyl Ethyl Ketone	Slight adhesive ooze	3	5
Isopropyl Alcohol	No visible effect	1	1
Mineral Spirits	No visible effect	1	1
JP-8 Jet Fuel	No visible effect	1	1
SAE 20 WT Oil	No visible effect	1	1
Mil-H-5606 Oil	No visible effect	1	1
Rust Veto® 377HF	No visible effect	1	1
Speedi Cut 332 Cutting Oil	No visible effect	1	1
Gasoline	No visible effect	1	1
Skydrol® 500B-4	Slight adhesive ooze, topcoat softened	2	4
Super Agitene®	No visible effect	1	1
Deionized Water	No visible effect	1	1
3% Alconox® Detergent	No visible effect	1	1
Northwoods™ Buzz Saw Degreaser	No visible effect	1	1

Rating Scale:

- 1= no visible effect
- 2= slight smear or print removal, detectable but minimal smear
- 3= moderate smear or print removal (print still legible)
- 4= severe smear or print removal (print illegible or just barely legible)
- 5= complete print and/or topcoat removal
- NP= print removed prior to rub

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 application.

Trademarks:

Alconox® is a registered trademark of Alconox Co.
Northwoods™ is a trademark of the Superior Chemical Corporation.
Rust Veto® is a registered trademark of the E.F. Houghton & Co.
Skydrol® is a registered trademark of the Monsanto 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.)
Weather-Ometer® is a registered trademark of Atlas Material Testing Technology LLC
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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