

BRADY B-969A MATTE METALLIZED POLYESTER LABEL STOCK

TDS No. B-969A
Effective Date: 09/26/2019

Description:

GENERAL

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

APPLICATIONS

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

RECOMMENDED RIBBONS

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-969A 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)	0.0028 inch (0.071 mm) 0.0020 inch (0.051 mm) 0.0048 inch (0.122 mm)
Adhesion to:	ASTM D 1000	
-Stainless Steel	20 minute dwell 24 hour dwell	65 oz/inch (71 N/100 mm) 77 oz/inch (84 N/100 mm)
-Textured ABS	20 minute dwell 24 hour dwell	24 oz/inch (26 N/100 mm) 27 oz/inch (30 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	40 oz/inch (44 N/100 mm) 40 oz/inch (44 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack (0.5 second dwell, 1 cm/sec separation)	46 oz (1300 grams)
Tensile Strength and Elongation	ASTM D 1000 -Machine -Cross	48 lbs/inch (841 N/100 mm), 95% 60 lbs/inch (1051 N/100 mm), 53%
Application Temperature	Lowest application temperature to stainless steel	50°F (10°C)

The following testing is performed with the B-969A printed with the Brady Series R5000 ribbon. All samples allowed to dwell 24 hours prior to testing.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
High Service Temperature	30 days at various temperatures	Slight topcoat discoloration at 145°C. No visible effect to print. No discoloration at 120°C; label moderately discolored but functional at 160°C
Low Service Temperature	30 days at -94°F (-70°C)	No visible effect
Humidity Resistance	30 days at 100°F (37°C) and 95% R.H.	No visible effect
UV Light Resistance	30 days in UV Sunlighter™ 100	Slight topcoat yellowing. Slight print fade.
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	Slight topcoat blotchiness. Slight print fade Brady Series R2000 and Brady Series 5000 print fade.
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 500 g/arm (Fed. Std. 191A, Method 5306)	Print still legible after 1500 cycles.

PERFORMANCE PROPERTIES	SOLVENT RESISTANCE
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Samples were printed with the Brady Series R5000 ribbon. Samples were laminated to aluminum 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 cotton swab saturated with test fluid.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE	
	APPEARANCE OF TAPE	APPEARANCE OF R5000 PRINT
Methyl Ethyl Ketone	Slight adhesive ooze, topcoat removed when rubbed	Print removed when rubbed
1,1,1-Trichloroethane	Slight adhesive ooze	Print removed when rubbed
Isopropyl Alcohol	No visible effect	No visible effect
Mineral Spirits	No visible effect	No visible effect
JP-4 Jet Fuel	Slight adhesive ooze	No visible effect
SAE 20 WT Oil	No visible effect	No visible effect
Mil 5606 Oil	No visible effect	No visible effect
Rust Veto® 377	No visible effect	No visible effect
Speedi Cut 332 Cutting Oil	No visible effect	Slight print bleed, slight print smear when rubbed
Gasoline	No visible effect	Print fade when rubbed
Skydrol® 500B-4	Slight adhesive ooze, topcoat softened	Slight print bleed, severe print smear when rubbed
Super Agitene®	No visible effect	No visible effect
Deionized Water	No visible effect	No visible effect
3% Alconox® Detergent	No visible effect	No visible effect
Northwoods™ Buzz Saw Degreaser	No visible effect	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 application.

Trademarks:

Alconox® is a registered trademark of Alconox Co.
Northwoods™ is a trademark of the Superior Chemical Corporation.
Polyken™ is a trademark of Testing Machines Inc.
Rust Veto® is a registered trademark of the E.F. Houghton & Co.
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.)
UL: Underwriters Laboratories Inc. (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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