

BRADY B-619A MATTE WHITE POLYESTER LABEL STOCK

TDS No. B-619A
Effective Date: 10/19/2020

Description:

GENERAL

Print Technology: Dot Matrix
Material Type: White Polyester
Finish: Matte
Adhesive: Permanent Acrylic

APPLICATIONS

General purpose high performance labels, barcode labels, and topside of printed circuit board and IC identification.

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-619A 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)	0.0026 inch (0.066 mm) 0.0008 inch (0.020 mm) 0.0034 inch (0.086 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	56 oz/in (61 N/100 mm) 59 oz/in (64 N/100 mm)
-Textured ABS	20 minute dwell 24 hour dwell	10 oz/in (11 N/100 mm) 12 oz/in (13 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	29 oz/in (32 N/100 mm) 36 oz/in (39 N/100 mm)
Tensile Strength and Elongation	ASTM D 1000 -Machine Direction -Cross Direction	42 lbs/in (736 N/100 mm), 118% 52 lbs/in (911 N/100 mm), 72%
Dielectric Strength	ASTM D 1000	9040 volts
Application Temperature	Lowest application temperature to stainless steel	50°F (10°C)

The following testing is performed with the B-619A printed with the Brady Series R5000 ribbon. All samples were allowed to dwell 24 hours at room temperature before exposure to the indicated environments.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at various temperatures	No effect at 120°C (248°F). Very slight discoloration of label at 130°C (266°F). Slight discoloration of label at 145°C (293°F) but no effect to 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), 95% R.H.	No visible effect to label or print
UV Light Resistance	ASTM G155, Cycle 1, Dry 30 days in Xenon Test Chamber	Very slight yellowing of topcoat; print slightly faded but very legible
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weather-Ometer®	No effect to label; Print slightly faded but very legible
Salt Fog Resistance	ASTM B 117 30 days in 5% salt fog solution chamber	No visible effect to label or print
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 500 g/arm (Fed. Std. 191A, Method 5306)	Print legible after 500 cycles

PERFORMANCE PROPERTY	SOLVENT RESISTANCE
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Samples were printed with the Brady Series R5000 ribbon. Samples 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 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, topcoat removed when rubbed	2	5
Isopropyl Alcohol	No visible effect	1	1
JP-8 Jet Fuel	Slight adhesive ooze	1	1
SAE 20 WT Oil	No visible effect	1	1
Mil-H-5606 Oil	No visible effect	1	1
Speedi Kut Cutting Oil 332	No visible effect	1	1
Gasoline	No visible effect	1	1
Rust Veto® 377 HF	No visible effect	1	1
Skydrol® 500B-4	Topcoat removed when rubbed	1	5
Super Agitene®	No visible effect	1	1
Alphametals BIOACT® EC- 7R™	Slight adhesive ooze	1	2
Deionized Water	No visible effect	1	1
3% Alconox® Detergent	No visible effect	1	1
Toluene	Topcoat removed when rubbed	1	5

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.
BIOACT® is a registered trademark of Petroferm, Inc.

EC-7R™ is a trademark of Petroferm Inc.

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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