

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 |
|----------------------|--------------------|
|----------------------|--------------------|

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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