

BRADY B-619 MATTE WHITE POLYESTER LABEL STOCK

TDS No. B-619
Effective Date: 06/11/2009

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 RIBBONS

Brady Series 2000 and 5000

REGULATORY/AGENCY APPROVALS

Brady B-619 is UL recognized and CSA accepted when printed with designated printing inks as well as with the Brady Series 2000 and 5000 dot matrix ribbons. See UL file MH10939 and CSA Acceptance Record LS41833 for specific details.

Brady B-619 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

SPECIAL FEATURES

Brady B-619 has good smudge resistance, solvent resistance, and high temperature performance.

Details:

| PHYSICAL PROPERTIES | TEST METHODS | AVERAGE RESULTS |
|----------------------------------|---|--|
| Thickness | ASTM D 1000 -Topcoat -Film -Adhesive -Total | 0.0006 inch (0.015 mm) 0.0020 inch (0.051 mm) 0.0010 inch (0.025 mm) 0.0036 inch (0.091 mm) |
| Adhesion to: -Stainless Steel | ASTM D 1000 20 minute dwell 24 hour dwell | 46 oz/in (50 N/100 mm) 55 oz/in (60 N/100 mm) |
| -Textured ABS | 20 minute dwell 24 hour dwell | 8 oz/in (9 N/100 mm) 9 oz/in (10 N/100 mm) |
| -Polypropylene | 20 minute dwell 24 hour dwell | 26 oz/in (28 N/100 mm) 29 oz/in (32 N/100 mm) |
| Tack | ASTM D 2979 Polyken™ Probe Tack 1 second dwell | 34 oz (970 g) |
| 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 | 7000 volts |
| Application Temperature | Lowest application temperature to stainless steel | 50°F (10°C) |

The following testing is performed with the B-619 printed with the Brady Series 2000 and 5000 ribbons. All samples allowed to dwell 24 hours prior to testing.

| PERFORMANCE PROPERTIES | TEST METHODS | TYPICAL RESULTS |
|--------------------------|--------------------------|--|
| High Service Temperature | 30 days at 293°F (145°C) | Very slight topcoat darkening at 145°C; no visible effect to Series 2000 or 5000 print. No darkening at 120°C. Label moderately discolored but functional at |

| | | |
|-----------------------------|--|--|
| | | 160°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 | Very slight topcoat yellowing. No visible effect to Series 2000 or 5000 print. |
| Weatherability | ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer | Series 2000 and 5000 print fade. Print still legible. |
| Salt Fog Resistance | ASTM B 117 30 days in 5% salt fog solution chamber | No visible effect |
| Abrasion Resistance | Taber Abraser, CS-10 grinding wheels, 500 g/arm (Fed. Std. 191A, Method 5306) | Series 2000 and 5000 print still legible after 400 cycles |
| PERFORMANCE PROPERTY | | SOLVENT RESISTANCE |

Samples printed with Series 2000 and 5000 ribbons. 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 cotton swab saturated with test fluid.

| CHEMICAL REAGENT | SUBJECTIVE OBSERVATION OF VISUAL CHANGE | | |
|----------------------------|---|--|--|
| | APPEARANCE OF TAPE | APPEARANCE OF SERIES 2000 PRINT | APPEARANCE OF SERIES 5000 PRINT |
| Methyl Ethyl Ketone | Slight adhesive ooze, topcoat removed when rubbed | Slight bleed, print removed when rubbed | Slight bleed, print removed when rubbed |
| 1,1,1-Trichloroethane | Slight adhesive ooze | Slight print removed when rubbed | Slight print removed when rubbed |
| Isopropyl Alcohol | No visible effect | No visible effect | No visible effect |
| JP-4 Jet Fuel | Slight adhesive ooze | No visible effect | No visible effect |
| SAE 20 WT Oil | No visible effect | No visible effect | No visible effect |
| Mil 5606 Oil | No visible effect | No visible effect | No visible effect |
| Speedi Kut Cutting Oil 332 | No visible effect | Slight print bleed, slight print smear when rubbed | Slight print bleed, slight print smear when rubbed |
| Gasoline | No visible effect | No visible effect | No visible effect |
| Rust Veto® 377 | No visible effect | No visible effect | No visible effect |
| Skydrol® 500B-4 | Slight adhesive ooze, topcoat softened | Slight print bleed, slight print smear when rubbed | Slight print bleed, slight print smear when rubbed |
| Super Agitene® | No visible effect | No visible effect | No visible effect |
| Alphametals BIOACT® EC-7R™ | Slight adhesive ooze | Slight print bleed, slight print smear when rubbed | Slight print bleed, slight print smear when rubbed |
| Deionized Water | No visible effect | No visible effect | No visible effect |
| 3% Alconox® Detergent | No visible effect | No visible effect | No visible effect |
| Genesolve® 2004 | Slight adhesive ooze | Slight print bleed, slight print smear when rubbed | Slight print bleed, slight print smear when rubbed |
| 6% Alpha 2110 @ 70°C | No visible effect | No visible effect | No visible effect |

Product testing, customer feedback, and history of similar products, support a customer performance expectation of at least **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 degrees F (27°C) and 60% RH*. We are confident that our product will perform well beyond this time frame. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use, in their actual applications.

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ASTM: American Society for Testing and Materials (U.S.A.)
CSA: Canadian Standards Association
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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