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Technical Data Sheet

BRADY B-969 MATTE METALLIZED POLYESTER LABEL STOCK

TDS No. B-969

Effective Date: 27-Apr-2010

Description:

GENERAL

Print Technology: Dot matrix

Material Type: Metallized polyester

Finish: Matte

Adhesive: Permanent acrylic

APPLICATIONS

Brady B-969 is used primarily as an identification label or rating plate material. Brady B-969 has good smudge resistance, solvent resistance, and high temperature performance.

RECOMMENDED RIBBONS

Brady series R2000

Brady series R5000

REGULATORY/AGENCY APPROVALS

UL: B-969 is a UL Recognized Component to UL969 Labeling and Marking Standard when printed with designated printing inks as well as with the Brady Series 2000 and 5000 dot matrix ribbons. See UL file MH10939.

CSA: B-969 is CSA accepted when printed with designated printing inks as well as with the Brady Series 2000 and 5000 dot matrix ribbons. See CSA Acceptance Record LS 41833 for specific details.

B-969 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Topcoat -Film -Adhesive -Total	0.0007 inch (0.018 mm) 0.0022 inch (0.056 mm) 0.0022 inch (0.056 mm) 0.0051inch (0.130 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	65 oz/inch (71 N/100 mm) 81 oz/inch (89 N/100 mm)
-Textured ABS	20 minute dwell 24 hour dwell	25 oz/inch (27 N/100 mm) 30 oz/inch (33 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	22 oz/inch (24 N/100 mm) 22 oz/inch (24 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack (1 second dwell, 1 cm/sec separation)	35 oz (1000 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)
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The following testing is performed with the B-969 printed with the Brady Series 2000 and 5000 ribbons. All samples allowed to dwell 24 hours prior to testing.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
High Service Temperature	30 days at 293°F (145°C)	Slight topcoat discoloration at 145° C. No visible effect to Series 2000 or 5000 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
H umidity 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 Series 2000 or 5000 print fade.
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	Slight topcoat blotchiness. Slight Series 2000 and 5000 print fade.
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 500 g/arm (Fed. Std. 191A, Method 5306)	Series 2000 and 5000 print still legible after 1500 cycles.

PERFORMANCE PROPERTY	SOLVENT RESISTANCE
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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	Print removed when rubbed	Print removed when rubbed
1,1,1-Trichloroethane	Slight adhesive ooze	Print removed when rubbed	Print removed when rubbed
Isopropyl Alcohol	No visible effect	No visible effect	No visible effect
Mineral Spirits	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
Rust Veto® 377	No visible effect	No visible effect	No visible effect
Speedi Cut 332 Cutting Oil	No visible effect	Slight print bleed, slight print smear when rubbed	Slight print bleed, slight print smear when rubbed
Gasoline	No visible effect	Print fade when rubbed	Print fade when rubbed
Skydrol® 500B-4	Slight adhesive ooze, topcoat softened	Slight print bleed, severe print smear when rubbed	Slight print bleed, severe print smear when rubbed
Super Agitene®	No visible effect	No visible effect	No visible effect
Deionized Water	No visible effect	No visible effect	No visible effect
3% Alconox® Detergent	No visible effect	No visible effect	No visible effect
Northwoods™ Buzz Saw Degreaser	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.

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.)

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.

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