

BRADY B-607 TAMPER-RESISTANT VINYL LABEL STOCK

TDS No. B-607
Effective Date: 11-Jun-2009

Description:

RESGENERAL

Print Technology: Dot Matrix
Material Type: Tamper-resistant Vinyl
Finish: Matte
Adhesive: Permanent Acrylic

APPLICATIONS

Brady B-607 is used where a computer printable non-removable or tamper-resistant label is needed.

REGULATORY/AGENCY APPROVALS

Brady B-607 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 LS 41833 for specific details.

Brady B-607 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

SPECIAL FEATURES

Brady B-607 has an aggressive adhesive and is designed to fracture easily to prevent one-piece removal.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000	0.0032 mils (0.081mm)
Adhesion to:	ASTM D 1000	
-Stainless Steel	20 minute dwell 24 hour dwell	Label destroys upon removal after both 20 minutes and 24 hours.
-Textured ABS	20 minute dwell 24 hour dwell	Label destroys upon removal after both 20 minutes and 24 hours.
-Polypropylene	20 minute dwell 24 hour dwell	Label destroys upon removal after both 20 minutes and 24 hours.
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	16.9 oz (480 g)
Application Temperature	Lowest application temperature to stainless steel.	40°F (4°C)
Tensile Strength and Elongation	ASTM D 1000 -Machine Direction -Cross Direction	7 lbs/in (123 N/100 mm), 3% 6 lbs/in (105 N/100 mm), 3%

The following testing is performed with B-607 printed with the Brady Series 2000 and 5000 ribbons and applied to aluminum panels. All samples allowed to dwell 24 hours prior to testing.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at 158°F (70°C)	No visible effect to label at 70°C. Slight topcoat discoloration at 100°C. Moderate topcoat discoloration at

		120°C, but label is still functional.
Low Service Temperature	30 days at -40°F (-40°C)	No visible effect
Humidity Resistance	30 days at 100°F (37°C), 95% R.H.	No visible effect
UV Light Resistance	30 days in UV Sunlighter™ 100	Slight topcoat yellowing. No visible effect to Series 2000 or 5000 print.
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	Slight fading of Series 2000 and 5000 print.
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, 250 g/arm (Fed. Std. 191A, Method 5306)	Series 2000 and 5000 print still legible after 300 cycles.
PERFORMANCE PROPERTY		SOLVENT RESISTANCE

Samples were printed with Brady Series 2000 and 5000 ribbons, laminated to aluminum panels, and dwelled 24 hours prior to test. Testing consisted of 5 cycles of 10 minute immersions in the specified chemicals followed by 30 minute recovery periods. After final immersion the samples were rubbed 10 times with cotton swabs saturated in test fluid. Testing was conducted at room temperature.

CHEMICAL REAGENT	APPEARANCE OF TAPE	APPEARANCE OF SERIES 2000 PRINT	APPEARANCE OF SERIES 5000 PRINT
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	No visible effect	No visible effect	No visible effect
ASTM Reference Fuel B	No visible effect	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	No visible effect	No visible effect
Rust Veto® 377	Slight topcoat yellowing	No visible effect	No visible effect
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
10% Sodium Hydroxide Solution	Topcoat discolored	Slight removal of ink when rubbed	Slight removal of ink when rubbed
10% Sulfuric Acid Solution	No visible effect	No visible effect	No visible effect

B-607 is not recommended for use in harsh organic solvents such as Methyl Ethyl Ketone, Acetone, and 1,1,1-Trichloroethane.

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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 Polyken™ is a trademark of Testing Machines Inc.
 Rust Veto® is a registered trademark of the E.F. Houghton & Co.
 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 U.S. Conventional Units are mathematically derived from the S.I. (metric)
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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