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Technical Data Sheet

BRADY B-773 LASER PRINTABLE METALLIZED POLYESTER LABEL STOCK

TDS No. B-773

Effective Date: 11/05/2015

Description:

B-773 is a metallized polyester film with a permanent acrylic pressure sensitive adhesive and a matte topcoat specifically formulated for laser printing.

B-773 is designed for applications, like rating and serial plates, that utilize alphanumerics, barcodes, graphic symbols and logos, and require nameplate-like quality. B-773 is designed to withstand numerous solvents and elevated temperatures.

B-773 is a UL-recognized component and CSA accepted material when printed with various laser printer toners. B-773 is also UL-recognized in the PermaShield™ (PSL) label format. See UL file MH17154 and CSA Acceptance Record LS 41833 for specific details.

Brady B-773 meets the requirements of a halogen-free material per DIN VDE 0472 part 815. (Statement based on review of product construction and confirmatory halogen content test run at an independent test laboratory.)

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTMD 1000 -Topcoat -Film -Adhesive -Total	0.0008 inch (0.020 mm) 0.0020 inch (0.051 mm) 0.0020 inch (0.0571mm) 0.0048 inch (0.122 mm)
Adhesion to: -Stainless Steel	ASTMD 1000 20 minute dwell 24 hour dwell	65 oz/inch (71 N/100 mm) 77 oz/inch (84 N/100 mm)
-Textured ABS	20 minute dwell 24 hour dwell	24 oz/inch (26 N/100 mm) 27 oz/inch (30 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	40 oz/inch (44 N/100 mm) 40 oz/inch (44 N/100 mm)
Tack	ASTMD 2979 Polyken™ Probe Tack 1 second dwell	46 oz (1300 g)
Drop Shear	PSTC-7 (except use 1/2" x 1" sample)	24+ hours
Tensile Strength and Elongation	ASTMD 1000 -Machine -Cross	65 lbs/in. (1138 N/100 mm), 149% 73 lbs/in. (1278 N/100 mm), 91%

Performance Properties tested on B-773 samples laser printed with HP LaserJet 6P printer. Printed samples were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environments.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
High Service Temperature	30 days at 248°F (120°C)	No visible effect
Low Service Temperature	30 days at -85°F (-65°C)	No visible effect
Humidity Resistance	30 days at 100°F (37°C) and 95% R.H.	No visible effect
UV Light Resistance	30 days in UV Sunlighter™ 100	No visible effect
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	No visible effect

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples printed with an HP LaserJet 6P printer. Samples laminated to aluminum panels and allowed to dwell 24 hours prior to testing. Test conducted at room temperature. 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		
	EFFECT TO LABEL STOCK	EFFECT TO PRINT	EFFECT TO PRINT WITH RUB
1,1,1-Trichloroethane	Slight adhesive ooze	Severe print bleed	Complete print removal after rub
Toluene	Slight adhesive ooze	Severe print bleed	Complete print removal after rub
Freon® TMS	Slight adhesive ooze	No visible effect	Slight print removal after rub
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
Rust Veto® 342	No visible effect	No visible effect	No visible effect
Skydrol® 500B-4	Slight adhesive ooze	No visible effect	Complete print removal after rub
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	Whitening of topcoat	No visible effect	No visible effect
10% Sulfuric Acid Solution	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.

Freon® is a registered trademark of Du Pont de Nemours, E.I. and Company.

PermaShield™ is a trademark of Brady Worldwide, Inc.
 Polyken™ is a trademark of Testing Machines Inc.
 Rust Veto® is a registered trademark of the E.F. Houghton & Co.
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 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
 PSTC: Pressure Sensitive Tape Council (U.S.A.)
 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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