

BRADY B-773B LASER PRINTABLE METALLIZED POLYESTER LABEL STOCK

TDS No. B-773B
Effective Date: 11/16/2020

Description:

GENERAL

Print Technology: Laser Printable
Material Type: Metallized Polyester
Finish: Matte
Adhesive: Permanent Acrylic

APPLICATIONS

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

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-773B 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	ASTM D 1000 -Substrate -Adhesive -Total (excluding liner)	0.0027 inch (0.069 mm) 0.0020 inch (0.051mm) 0.0047 inch (0.120 mm)
Adhesion to:	ASTM D 1000	
-Stainless Steel	20 minute dwell 24 hour dwell	65 oz/inch (71 N/100 mm) 78 oz/inch (85 N/100 mm)
-Textured ABS	20 minute dwell 24 hour dwell	21 oz/inch (23 N/100 mm) 25 oz/inch (27 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	25 oz/inch (27 N/100 mm) 40 oz/inch (44 N/100 mm)
Drop Shear	PSTC-7 (except use 1/2" x 1" sample)	50+ hours

Performance Properties tested on B-773B samples printed on a laser jet 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 -94°F (-70°C)	No visible effect
Humidity Resistance	30 days at 100°F (37°C) and 95% R.H.	No visible effect
UV Light Resistance	ASTM G155, Cycle 1, Dry 30 days in Xenon Test Chamber	Slight discoloration of label; no visible effect to print
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weather-Ometer®	No visible effect

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples were printed on a laser jet printer, 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 a cotton swab saturated with test fluid.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE		
	EFFECT TO LABEL STOCK	EFFECT TO PRINT	
		WITHOUT RUB	WITH RUB
Toluene	Slight adhesive ooze	1	5
Isopropyl Alcohol	No visible effect	1	1
Mineral Spirits	No visible effect	1	1
JP-8 Jet Fuel	No visible effect	1	1
SAE 20 WT Oil	No visible effect	1	1
Mil-H-5606 Oil	No visible effect	1	1
Rust Veto® 377HF	No visible effect	1	1
Skydrol® 500B-4	Topcoat Softening	2	5
Super Agitene®	No visible effect	1	1
Deionized Water	No visible effect	1	1
3% Alconox® Detergent	No visible effect	1	1
10% Sodium Hydroxide Solution	Mottled topcoat and eroded edges	1	1
Gasoline	No visible effect	1	1
10% Sulfuric Acid Solution	No visible effect	1	1

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.
Rust Veto® is a registered trademark of the E.F. Houghton & Co.
Super Agitene® is a registered trademark of Graymills Corporation
ASTM: American Society for Testing and Materials (U.S.A.)
PSTC: Pressure Sensitive Tape Council (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.

Product compliance information is based upon information provided by suppliers of the raw materials used by Brady to manufacture this product or based on results of testing using recognized analytical methods performed by a third party, independent laboratory. As such, Brady makes no independent representations or warranties, express or implied, and assumes no liability in connection with the use of this information.

WARRANTY

Brady products are sold with the understanding that the buyers will test them in actual use and determine for themselves their

adaptability to their intended uses. Brady warrants to the buyers that its products are free from defects in material and workmanship, but limits its obligation under this warranty to replacement of the product shown to Brady's satisfaction to have been defective at the time Brady sold it. This warranty does not extend to any persons obtaining the product from the buyers. This warranty is in lieu of any other warranty, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations or liability on Brady's part. Under no circumstances will Brady be liable for any loss, damage, expense, or consequential damages of any kind arising in connection with the use, or inability to use, Brady's products.

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