

## BRADY B-773A LASER PRINTABLE METALLIZED POLYESTER LABEL STOCK

TDS No. B-773A

Effective Date: 01/25/2019

### Description:

#### GENERAL

**Print Technology:** Laser Printable

**Material Type:** Metallized Polyester

**Finish:** Matte

**Adhesive:** Permanent Acrylic

### APPLICATIONS

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

### REGULATORY/AGENCY APPROVALS

**UL:** B-773A is a UL Recognized Component to UL969 Labeling and Marking Standard when printed with designated laser printer toners. B-773A is also UL-recognized in the PermaShield™ (PSL) label format. See UL File MH17154 for specific details. UL information can be accessed on-line at UL.com in the UL Product iQ area.

**CSA:** B-773A is CSA Accepted when printed with designated laser printer toners. See CSA file 041833 for specific details. CSA information can be accessed online at [directories.csa-international.org](http://directories.csa-international.org).

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](http://www.bradycanada.ca/weee-rohs)

In Europe: [www.bradyeurope.com/rohs](http://www.bradyeurope.com/rohs)

In Japan: [www.bradyc.co.jp/products/labelsuse/rohs](http://www.bradyc.co.jp/products/labelsuse/rohs)

All other regions: [www.bradyd.com/weee-rohs](http://www.bradyd.com/weee-rohs)

### SPECIAL FEATURES:

Brady B-773A 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 -Topcoat -Film -Adhesive -Total (excluding liner)	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:	ASTM D 1000	
-Stainless Steel	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	ASTM D 2979 Polyken™ Probe Tack 0.5 second dwell	46 oz (1300 g)
Drop Shear	PSTC-7 (except use 1/2" x 1" sample)	24+ hours
Tensile Strength and Elongation	ASTM D 1000 -Machine -Cross	65 lbs/in. (1138 N/100 mm), 149% 73 lbs/in. (1278 N/100 mm), 91%

Performance Properties tested on B-773A samples laser 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 -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 on a laser jet 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

#### 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 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.  
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  
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.

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**

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