

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

TDS No. B-773A

Effective Date: 09/26/2019

### 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

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.brady.co.jp/products/labelsuse/rohs](http://www.brady.co.jp/products/labelsuse/rohs)

All other regions: [www.bradyid.com/weee-rohs](http://www.bradyid.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<br>-Topcoat<br>-Film<br>-Adhesive<br>-Total (excluding liner)                                                       | 0.0008 inch (0.020 mm)<br>0.0020 inch (0.051 mm)<br>0.0020 inch (0.0571mm)<br>0.0048 inch (0.122 mm)                                                                         |
| Adhesion to:<br>-Stainless Steel<br><br>-Textured ABS<br><br>-Polypropylene | ASTM D 1000<br>20 minute dwell<br>24 hour dwell<br><br>20 minute dwell<br>24 hour dwell<br><br>20 minute dwell<br>24 hour dwell | 65 oz/inch (71 N/100 mm)<br>77 oz/inch (84 N/100 mm)<br><br>24 oz/inch (26 N/100 mm)<br>27 oz/inch (30 N/100 mm)<br><br>40 oz/inch (44 N/100 mm)<br>40 oz/inch (44 N/100 mm) |
| Tack                                                                        | ASTM D 2979<br>Polyken™ Probe Tack<br>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<br>-Machine<br><br>-Cross                                                                                           | 65 lbs/in. (1138 N/100 mm),<br>149%<br>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<br>30 days in Xenon Arc Weatherometer | No visible effect |
|----------------|----------------------------------------------------------|-------------------|

| PERFORMANCE PROPERTY | CHEMICAL RESISTANCE |
|----------------------|---------------------|
|----------------------|---------------------|

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.)  
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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