

## BRADY B-707 LASERTAB® MARKERS

TDS No. B-707

Effective Date: 09/26/2019

### Description:

#### GENERAL

**Print Technology:** Laser

**Material Type:** Polyester

**Finish:** Matte

**Adhesive:** Permanent Acrylic

### APPLICATIONS

B-707 is recommended for telecommunications applications, computer housing units, rating plates and asset I.D. that require good solvent resistance and moderate to high temperature performance.

### 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.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

B-707 is formulated specially for laser printers. The material offers high print resolution, good solvent resistance, smudge resistance, and moderate to high temperature performance. The adhesive is specifically formulated for rough and low surface energy surfaces.

### Details:

| PHYSICAL PROPERTIES             | TEST METHODS                                                       | AVERAGE RESULTS                                                               |
|---------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Thickness                       | ASTM D 1000<br>-Substrate<br>-Adhesive<br>-Total (excluding liner) | 0.0026 inch (0.0660 mm)<br>0.0020 inch (0.0508 mm)<br>0.0046 inch (0.1168 mm) |
| Adhesion to:                    | ASTM D 1000                                                        |                                                                               |
| -Stainless Steel                | 20 minute dwell<br>24 hour dwell                                   | 53 oz/in (58 N/100 mm)<br>65 oz/in (71 N/100 mm)                              |
| -Textured ABS                   | 20 minute dwell<br>24 hour dwell                                   | 16 oz/in (18 N/100 mm)<br>17 oz/in (19 N/100 mm)                              |
| -Polypropylene                  | 20 minute dwell<br>24 hour dwell                                   | 29 oz/in (32 N/100 mm)<br>32 oz/in (35 N/100 mm)                              |
| -Painted Enamel                 | 20 minute dwell<br>24 hour dwell                                   | 58 oz/in (63 N/100 mm)<br>72 oz/in (79 N/100 mm)                              |
| -Powder Coated                  | 20 minute dwell<br>24 hour dwell                                   | 42 oz/in (46 N/100 mm)<br>52 oz/in (57 N/100 mm)                              |
| Tack                            | ASTM D 2979<br>Polyken™ Probe Tack<br>1 second dwell               | 37 oz (1150 g)                                                                |
| Drop Shear                      | PSTC-7 (except use 1/2" x 1" sample)                               | 42 hours                                                                      |
| Tensile Strength and Elongation | ASTM D 1000<br>-Machine Direction<br>-Cross Direction              | 39 lbs/in (683 N/100 mm), 77%<br>53 lbs/in (928 N/100 mm), 65%                |
| Dielectric Strength             | ASTM D 1000                                                        | 7500 volts                                                                    |

Performance Properties tested on B-707. Samples laser printed on a laser jet printer.

| PERFORMANCE PROPERTIES   | TEST METHODS                                             | TYPICAL RESULTS   |
|--------------------------|----------------------------------------------------------|-------------------|
| High Service Temperature | 30 days at 267 °F (130°C)                                | No visible effect |
| 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                            | No visible effect |
| Weatherability           | ASTM G155, Cycle 1<br>30 days in Xenon Arc Weatherometer | No visible effect |
| Salt Fog Resistance      | ASTM B 117<br>30 days in 5% salt fog solution chamber    | No visible effect |

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

Samples printed on a laser jet printer. Test was conducted at room temperature after 24 hour dwell. Testing consisted of 5 cycles of 10 minute immersions in the specified chemical reagent followed by 30 minute recovery periods. Ten cotton swab rubs wetted in the specified reagent after final immersion.

| CHEMICAL REAGENT              | SUBJECTIVE OBSERVATION OF VISUAL CHANGE |                              |
|-------------------------------|-----------------------------------------|------------------------------|
|                               | APPEARANCE OF LABEL STOCK               | APPEARANCE OF LASER PRINTING |
| Methyl Ethyl Ketone           | Slight adhesive ooze                    | Printing removed             |
| 1,1,1-Trichloroethane         | Slight adhesive ooze                    | Printing removed             |
| Toluene                       | Slight adhesive ooze                    | Printing removed             |
| Freon® TMS                    | Slight adhesive ooze                    | No visible effect            |
| Isopropyl Alcohol             | No visible effect                       | No visible effect            |
| Mineral Spirits               | No visible effect                       | No visible effect            |
| JP-4 Jet Fuel                 | No visible effect                       | No visible effect            |
| ASTM #3 Oil                   | No visible effect                       | No visible effect            |
| Mil 5606 Oil                  | No visible effect                       | No visible effect            |
| Skydrol® 500B4                | No visible effect                       | Printing removed             |
| Super Agitene®                | No visible effect                       | No visible effect            |
| Deionized Water               | No visible effect                       | No visible effect            |
| 3% Alconox® Detergent         | No visible effect                       | No visible effect            |
| 10% Sodium Hydroxide Solution | No visible effect                       | No visible effect            |
| 10% Sulfuric Acid Solution    | 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 application.

#### Trademarks:

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

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#### **WARRANTY**

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