

**BRADY B-747 LASERTAB® MARKERS**

TDS No. B-747  
Effective Date: 09/26/2019

**Description:**

**GENERAL**

**Print Technology:** Laser Printable

**Material Type:** Polyester

**Finish:** Matte

**Adhesive:** Permanent Acrylic

**APPLICATIONS**

B-747 is recommended for alphanumeric and barcode applications that require good solvent resistance and moderate to high temperature performance. This product works well on the topside of most circuit boards and IC's, as well as general labeling applications.

**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:**

B-747 is available in white or yellow.

B-747 is formulated specially for laser printers. The material offers high print resolution, good solvent resistance, smudge resistance and moderate to high temperature performance.

**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>0.0011 inch (0.0279 mm)<br>0.0037 inch (0.0940 mm)                                   |
| Adhesion to:<br>-Stainless Steel<br><br>-Textured ABS | ASTM D 1000<br>20 minute dwell<br>24 hour dwell<br><br>20 minute dwell<br>24 hour dwell | 46 oz/inch (50 N/100 mm)<br>56 oz/inch (61 N/100 mm)<br><br>9 oz/inch (10 N/100 mm)<br>16 oz/inch (18 N/100 mm) |
| Tack  | ASTM D 2979<br>Polyken™ Probe Tack<br>(0.5 second dwell, 1 cm/sec separation)           | 17 oz (503 g)   |
| Drop Shear  | PSTC-7 (except use 1/2" x 1" sample)  | 22 hours  |
| Tensile Strength and Elongation                       | ASTM D 1000<br>-Machine Direction<br>-Cross Direction                                   | 39 lbs/inch (683 N/100 mm), 77%<br>53 lbs/inch (928 N/100 mm), 65%  |
| Dielectric Strength                                   | ASTM D 1000   | 7000 volts  |

Performance Properties were tested on B-747 samples laser printed with a laser jet.

| 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 |

|                             |                            |
|-----------------------------|----------------------------|
| <b>PERFORMANCE PROPERTY</b> | <b>CHEMICAL RESISTANCE</b> |
|-----------------------------|----------------------------|

Samples printed with 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 period.

| CHEMICAL REAGENT              | SUBJECTIVE OBSERVATION OF VISUAL CHANGE |                           |
|-------------------------------|---|---------------------------|
|                               | APPEARANCE OF LABEL STOCK               | APPEARANCE OF LASER PRINT |
| Methyl Ethyl Ketone           | No visible effect                       | Print removed             |
| 1,1,1-Trichloroethane         | No visible effect                       | Print removed             |
| Toluene                       | No visible effect                       | Print removed             |
| Freon® TMS                    | No visible effect                       | 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® 500B-4               | No visible effect                       | Print 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.  
 Lasertab® is a registered trademark of Brady Worldwide Inc.  
 Polyken™ is a trademark of Testing Machines Inc.  
 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.)  
 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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Brady North America | 6555 W. Good Hope Rd | Milwaukee, WI 53223 | USA | Tel: 414-358-6600 | Fax: 800-292-2289