

BRADY B-747 LASERTAB® MARKERS

TDS No. B-747
 Effective Date: 21-Feb-2000

Description:

B-747 is a polyester film with an acrylic pressure sensitive adhesive and a printable coating specially formulated for laser printer and toners. B-747 is available in white or yellow.

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.

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.

B-747 white is a UL recognized component and CSA accepted material when printed with designated laser printers. See UL file MH17154 and CSA Acceptance Record LS 41833 for specific details.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total	0.0026 inch (0.0660 mm) 0.0011 inch (0.0279 mm) 0.0037 inch (0.0940 mm)
Adhesion to: -Stainless Steel -Textured ABS	ASTM D 1000 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell	46 oz/inch (50 N/100 mm) 56 oz/inch (61 N/100 mm) 9 oz/inch (10 N/100 mm) 16 oz/inch (18 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack (1 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 -Machine Direction -Cross Direction	39 lbs/inch (683 N/100 mm), 77% 53 lbs/inch (928 N/100 mm), 65%
Dielectric Strength	ASTM D 1000	7000 volts

Performance Properties tested on B-747 samples laser printed with Hewlett Packard Laserjet III.

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 30 days in Xenon Arc Weatherometer	No visible effect
PERFORMANCE PROPERTY		CHEMICAL RESISTANCE

Samples printed with a Hewlett Packard Laserjet III 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

Product testing, customer feedback, and history of similar products, support a customer performance expectation of at least **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 degrees F (27 °C) and 60% RH*. We are confident that our product will perform well beyond this time frame. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional 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.
 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.)
 CSA: Canadian Standard Association
 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.

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.

Specification Of LASERTAB® Laser Printable Labels

Application(s): Circuit Board & Component ID, Through Hole - Top

Size: 1.000" W x 0.250" H (25.400 mm W x 6.350 mm H)

Sheet Size: 8.500" x 11.000" (215.9 mm x 279.4 mm)

Printable Area: 1.000" W x 0.250" H (25.400 mm W x 6.350 mm H)

Label Type/Style: Label

Horizontal Repeat: 1.100" (27.94 mm)

Color: White

Finish: Matte

Qty Per Row: 7

Material Type: Polyester

Material Description: Permanent Polyester

Brady Material #: B-747

After Process: Yes, this material will work with this application

Left Margin: 0.450" (11.43 mm)

Printer Compatibility: Laser Printers

Qty Per Sheet: 266

Surface Mount Technology: No, this material does not work with this application

Through Hole Technology: Top: Yes. In extreme high temperatures, testing of this material is recommended, Bottom: No

Top Margin: 0.875" (22.23 mm)

RoHS Compatibility: Compliant with RoHS Directive. NOTE: All statements concerning RoHS Directive compliance refer to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC. Product compliance is based upon information provided by suppliers of the raw materials used by Brady to manufacture these products, or by independent laboratory testing of these products. As such, Brady makes no independent representations or warranties, express or implied, and assumes no liability in connection with the use of this information.

QTY/UOM: 10,000/Package