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## Technical Data Sheets

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### Technical Data Sheet

#### 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
<b>PERFORMANCE PROPERTY</b>		<b>CHEMICAL RESISTANCE</b>

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.  
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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.)  
 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.

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