

BRADY B-747 LASERTAB® MARKERS

TDS No. B-747
 Effective Date: 01/29/2019

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/AGENCY APPROVALS

UL: B-747 is a UL Recognized Component to UL969 Labeling and Marking Standard when printed with designated laser printer toners. See UL File MH17154 for specific details. UL information can be accessed on-line at UL.com in the UL Product iQ area.

CSA: B-747 is CSA Accepted when printed with designated laser printer toners. See CSA file 041833 for specific details. CSA information can be accessed online at directories.csa-international.org.

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

In Europe: www.bradyeurope.com/rohs

In Japan: www.brady.co.jp/products/labelsuse/rohs

All other regions: 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 -Substrate -Adhesive -Total (excluding liner)	0.0026 inch (0.0660 mm) 0.0011 inch (0.0279 mm) 0.0037 inch (0.0940 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	46 oz/inch (50 N/100 mm) 56 oz/inch (61 N/100 mm)
-Textured ABS	20 minute dwell 24 hour dwell	9 oz/inch (10 N/100 mm) 16 oz/inch (18 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack (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 -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 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 30 days in Xenon Arc Weatherometer	No visible effect

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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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.)
 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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