

Brady B-8088A UL94 VTM0 Matte White Polyimide Labelstock

TDS No. B-8088A
Effective Date: 02/04/2019

Description:

GENERAL

Print Technology: Thermal Transfer (THT), Flexography, Letterpress

Materials Type: Polyimide

Finish: Matte white

Adhesive: Permanent acrylic

APPLICATIONS

Identification label for mobile phone battery pack, optical trans-receiver devices, optical fiber amplifier and wrap-around conformity.

RECOMMENDED THT RIBBONS

Brady Series R6200

REGULATORY/AGENCY APPROVALS

UL: B-8088A is a UL Recognized Component to UL969 Labeling and Marking Standard when printed with the Brady Series R6200 and the Brady Series R7961 ribbons. See UL files MH17154, MH25991 and MH16386 for specific details. UL information can be accessed on-line at UL.com in the UL Product iQ area.

B-8088A is QMFZ2 recognized and VTM-0 rated as per UL94 standard. Refer to File# E316839 under *Certifications* at www.ul.com

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-8088A is halogen-free in accordance to definition in IEC61249-2-21 and IPC-4101B, tested using IPC-TM-650.

Details:

PHYSICAL PROPERTIES	TEST METHOD	TYPICAL RESULTS
Thickness	ASTM D1000 - Substrate - Adhesive - Total (excluding liner)	0.002 inch (0.046 mm) 0.001 inch (0.022 mm) 0.003 inch (0.068 mm)
Peel Adhesion to: - Stainless Steel	ASTM D1000 20 minute dwell 72 hour dwell	29 oz/inch (32 N/100 mm) 38 oz/inch (41 N/100 mm)
- ABS	20 minute dwell 72 hour dwell	28 oz/inch (31 N/100 mm) 33 oz/inch (37 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 0.5 second dwell	30 oz (859 g)

Performance properties exhibited by B-8088A in the following were based on samples printed with the Brady Series R6200 ribbon. Printed samples were laminated to aluminum panels and allowed to dwell 24 hours before exposure to the indicated environment.

PROPERTIES	TEST METHOD	TYPICAL RESULTS
Abrasion	CS-10, 25 cycles load 250g	No visible effect
High Temperature Resistance	100°C for 1000 hours in air oven	Slight yellowing of topcoat. Label remained functional, print is legible.
Low Temperature Resistance	-40°C for 1000 hours in freezer	No visible effect

	-70°C for 1000 hours in freezer	No visible effect
High Humidity Resistance	37°C/ 95%RH for 1000 hours	No visible effect
Thermal Shock Resistance	-40°C to 85°C for 10 cycles	No visible effect
Weathering Resistance	ASTM G155 1000 hours exposure in Xenon Arc Weather-Ometer®	Slight yellowing of topcoat. Label remained functional, print is legible

Test samples were printed with the Brady Series R6200 ribbon. Printed samples were laminated to aluminum panels and allowed to dwell 24 hours prior to testing. Testing was conducted at room temperature and consisted of 15 minute immersion in specified test fluid. After immersion, the samples were removed from the test fluid and the printed image was rubbed 10 times with a cotton swab saturated with the test fluid. A rating scale of 1 – 5 is used in the table below to show the print quality of the samples tested upon exposure to different chemicals.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE		
	EFFECTS TO MATERIAL	EFFECTS TO PRINTED IMAGE	
		R6200	
		WITHOUT RUB	WITH RUB
IPA	No visible effect	1	1
Mineral Spirit	No visible effect	1	1
10% sulphuric acid	No visible effect	1	1

Rating scale:

- 1 = No visible effect
- 2 = Slight print removal
- 3 = Moderate print removal
- 4 = Severe print removal
- 5 = Complete print removal

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:

ASTM: American Society for Testing and Materials (U.S.A.)
 Polyken™ is a trademark of Testing Machines Inc.
 UL: Underwriters Laboratories Inc. (U.S.A.)
 Weather-Ometer® is a registered trademark of Atlas Material Testing Technology LLC

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.

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