Brady B-8088A UL94 VTM-0 Matte White Polyimide Labelstock with permanent pressure sensitive adhesive

TDS No. B-8088
Effective Date: 13-Apr-2015

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

B-8088A is RoHS compliant in accordance to the EU Directive 2011/65/EU.

UL: B-8088A is UL Recognized to UL969 Labeling and Marking Standard when printed with the Brady Series R6200 ribbon. See UL files MH25991 and MH16386 at ul.com for specific details.

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

Details:

PHYSICAL PROPERTIES	TEST METHOD	TYPICAL RESULTS
Thickness	ASTM D1000 - Substrate - Adhesive - Total	 0.002 inch (0.046 mm) 0.001 inch (0.022 mm) 0.003 inch (0.068 mm)
Peel Adhesion to: - Stainless Steel - ABS	ASTM D1000 20 minute dwell 72 hour dwell 20 minute dwell 72 hour dwell	 29 oz/inch (32 N/100 mm) 38 oz/inch (41 N/100 mm) 28 oz/inch (31 N/100 mm) 33 oz/inch (37 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	30 oz (859 g)

Performance properties exhibited by B-8088A in the following were based on samples printed with 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	CS10, 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 -70°C for 1000 hours in freezer	No visible effect 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

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.

	SUBJECTIVE OBSERVATION OF VISUAL CHANGE	
	EFFECTS TO PRINTED IMAGE	

CHEMICAL REAGENT	EFFECTS TO MATERIAL	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

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°F (27°C) and 80% 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 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.

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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.