

B-8421 GLOSSY WHITE POLYESTER LABEL STOCK

TDS No. B-8421
Effective Date: 02/09/2019

Description:

GENERAL

Print Technology: Thermal Transfer

Materials Type: Polyester

Finish: Gloss

Adhesive: Permanent Acrylic

RECOMMENDED RIBBONS

Brady Series R8963

REGULATORY/AGENCY APPROVALS

UL: B-8421 is a UL Recognised Component to UL969 Labeling and Marking Standard when printed with the Brady Series R8963 ribbon. See UL files MH25991 and MH16386 for specific details. UL information can be accessed on-line at UL.com in the UL Product iQ area.

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

Details:

PHYSICAL PROPERTIES	TEST METHOD	TYPICAL RESULTS
Thickness	ASTM D1000 -Facestock -Adhesive -Total (excluding liner)	0.054 mm (0.0021 in) 0.017 mm (0.0007 in) 0.071 mm (0.0028 in)
Peel Adhesion to:	ASTM D1000	
- Stainless Steel	20 minute dwell 24 hour dwell	43 N/100mm (39 oz/in) 84 N/100mm (77 oz/in)
- Polyethylene (HDPE)	20 minute dwell 24 hour dwell	12 N/100mm (11 oz/in) 15 N/100mm (14 oz/in)
- Polypropylene	20 minute dwell 24 hour dwell	29 N/100mm (27 oz/in) 32 N/100mm(29 oz/in)
- ABS	20 minute dwell 24 hour dwell	52 N/100mm (48 oz/in) 70 N/100mm (64 oz/in)
- Glass	20 minute dwell 24 hour dwell	38 N/100mm (35 oz/in) 39 N/100mm (36 oz/in)

Performance properties tested on B-8421 were printed with the Brady Series R8963 ribbon. Printed samples were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environment.

PROPERTIES	TEST METHOD	TYPICAL RESULTS
Abrasion Resistance	Taber Abraser CS-10 wheels, 250g	Legibility remained up to 50 cycles.
High Service Temperature Resistance (Short term)	2 hours at 60 °C 2 hours at 150°C	No visible effect. Label remained functional. No visible effect. Label remained functional.
High Service Temperature Resistance	1000 hours at 100 °C	No visible effect. Label remained functional.

Low Service Temperature Resistance	1000 hours at -40 °C	No visible effect. Label remained functional.
Humidity Resistance	1000 hours at 37 °C/95%RH	No visible effect. Label remained functional.
UV Resistance	ASTM G154 1000 hours exposure	Very slight yellowing of surface observed. Label remained functional.
Weathering Resistance	ASTM G155 1000 hours exposure	Slight yellowing of label surface. Label remained functional.

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
-----------------------------	----------------------------

Samples were printed with the Brady Series R8963 ribbon. 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 PRINTED IMAGE USING R8963	
	WITHOUT RUB	WITH RUB
IPA	1	1-2
Heptane	1	1
Hexane	1	1
Acetone	4	5
MEK	3	5
Toulene	1	5
Mineral Spirit	1	1
Gasoline	1	5
10% H2SO4	1	1
10% NaOH	1	1
Deionised water	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.)

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.

Copyright 2019 Brady Corporation Asia Pte. Ltd. | All Rights Reserved
Material may not be reproduced or distributed in any form without written permission.

Brady Asia | 1 Kaki Bukit Crescent | Singapore 416236 | Singapore | Tel: 65 6477.7261 | Fax: 65 6748.7248