

B-8421 GLOSSY WHITE POLYESTER LABEL STOCK

TDS No. B-8421
Effective Date: 04/13/2012

Description:

GENERAL

Print Technology: Thermal Transfer

Materials Type: Polyester

Finish: Glossy

Adhesive: Permanent Acrylic

RECOMMENDED RIBBONS

Brady R8963 Series

COMPLIANCE

B-8421 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

B-8421 is UL Recognised as a PGJ12/ PGDQ2 category label when printed with Brady R8963 series ribbon, tested according to UL 969 standard . Refer to UL files MH25991 and MH16386 at www.ul.com (under "Certifications") for specific details.

Details:

PHYSICAL PROPERTIES	TEST METHOD	TYPICAL RESULTS
Thickness	ASTM D1000 - Facestock - Adhesive - Total	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 Brady R8963 Series ribbon using BradyPrinter THT Model 600X-Plus Thermal Transfer printer. 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	No visible effect. Label remained functional.
	2 hours at 150°C	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.
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PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples were printed with Brady R8963 Series ribbon using a BradyPrinter 600X-Plus thermal transfer printer. 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

Product testing, customer feedback, and history of similar products, support a customer performance expectation of at least **one year 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 . 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:

ASTM: American Society for Testing and Materials (U.S.A.)
 BradyPrinter™ is a trademark of Brady Worldwide, Inc.

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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