

Votre point de repère

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Technical Data Sheet

BRADY B-449 THERMAL TRANSFER PRINTABLE REMOVABLE POLYPROPYLENE LABEL STOCK

TDS No. B-449

Effective Date: 1/18/2019

Description:

GENERAL Print Technology: Thermal Transfer Material Type: White polypropylene Finish: Matte white Adhesive: Removable acrylic

APPLICATIONS

Temporary labeling applications requiring solvent resistance and print performance coupled with clean removability.

RECOMMENDED RIBBONS

Brady Series R4300 Brady Series R6200

REGULATORY APPROVALS

For information on the Weee-RoHS compliance status for a Brady Product go to one of the following websites: In Canada: <u>www.bradycanada.ca/weee-rohs</u>

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 METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Total (excluding liner)	0.0044 inch (0.112 mm)
Adhesion to: -Stainless Steel -Glass -Aluminum -Polypropylene	ASTM D 1000 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell	27 oz/inch (30 N/100 mm) 28 oz/inch (31 N/100 mm) 23 oz/inch (25 N/100 mm) 25 oz/inch (31 N/100 mm) 25 oz/inch (27 N/100 mm) 27 oz/inch (30 N/100 mm) 29 oz/inch (32 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack (0.5 second dwell, 1 cm/sec separation)	24 oz (700 g)
Tensile Strength and Elongation	ASTM D 1000 -Machine	24 lbs/inch (420 N/100 mm), 90%



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Performance properties tested on B-449 printed with the Brady Series R4300 and the Brady Series R6200 ribbons. Printed samples were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environmental conditions.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS	
Long Term High Service Temperature	30 days at various temperatures	No visible effect to label at 194°F (90°C), , surface cracks in label at 212°F (100°C), slight discoloration at 230°F (110°C), severe discoloration at 248°F (120°C).	
Low Service Temperature	30 days at -40°F (-40°C) 30 days at -94°F (-70°C)	No visible effect	
Humidity Resistance	30 days at 100°F (37°C)/ and 95% Relative Humidity	No visible effect	
Weatherability ¹	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	Topcoat becomes chalky	
Abrasion Resistance	asion Resistance Taber Abraser, CS-10 grinding wheels, R430 500 g/arm (Fed. Std. 191A, Method 5306) print b remov		

¹B-449 is not recommended for long-term outdoor use.

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE

Chemical resistance tested on B-449 printed with the Brady Series R4300 and the Brady Series R6200 ribbons. Test was conducted at room temperature except where noted. Testing consisted of 30 minute immersion in the specified test fluid. The samples were removed and rubbed 10 times with a cotton swab saturated with the test fluid. The rating scale below shows the effect to the quality of the print for each sample.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE			
	EFFECT TO LABEL STOCK/ADHESIVE	EFFECTS TO PRINTED IMAGE*		
		R4300	R6200	
Acetone	No visible effect	1	3-4	
Isopropyl Alcohol	No visible effect	1	1	
Toluene	No visible effect	3	4-5	
Mineral Spirits	No visible effect	1	1	
Gasoline	No visible effect	1	2	
Brake Fluid	No visible effect	1	4-5	
20 wt oil @ 70°C	No visible effect	3-4	1	
Formula 409®	No visible effect	1-2	5	
Northwoods™ Buzz Saw Degreaser	No visible effect	5	5	
Deionized Water	No visible effect	1	1	

*After printed image rubbed on; there was no visible effect without rub unless otherwise noted.

Rating Scale: 1=no visible effect 2=slight smear or print removal; detectable but minimal smear 3=moderate smear or print removal (print still legible) 4=severe smear or print removal 5=complete print and/or topcoat removal NP=print completely removed from label

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

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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 applications.

Trademarks:

Formula 409® is a registered trademark of the Clorox Company Northwoods[™] is a trademark of Superior Chemical Corporation Polyken[™] is a trademark of Testing Machines Inc. ASTM: American Society for Testing and Materials (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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