

Votre point de repère

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Technical Data Sheet



BRADY B-425A THERMAL TRANSFER PRINTABLE POLYPROPYLENE LABEL STOCK

TDS No. B-425A Effective Date: 01/18/2019

Description:

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

APPLICATIONS

Labeling applications requiring excellent solvent resistance and print performance.

RECOMMENDED RIBBONS

Brady Series R4300 Brady Series R6200 Brady Series R6400 black Brady Series R4500 colored (red, blue and green). The Brady Series R6400 ribbon exhibits the best overall chemical resistance.

REGULATORY/AGENCY APPROVALS

UL: B-425A is a UL Recognized Component to UL969 Labeling and Marking Standard when printed with Brady Series R4300, R6200, R6400 and R7961 ribbon. See UL file MH17154 for specific details. UL can be accessed on line at UL.com in the UL Product iQ area.

CSA: B-425A is CSA Accepted to C22.2 No.0.15-95 Adhesive Labels Standards when printed with the Brady Series R6200, R6400 and R7961 ribbons. B-425A is approved to Type A. See CSA file 041833 for specific details. CSA information can be accessed online at *directories.csa-international.org*

DIN VDE: Brady B-425A meets the requirements of a halogen-free material per DIN VDE 0472 part 815. (Statement based on the review of product construction and confirmatory halogen content test run at an independent test laboratory).

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: <u>www.brady.co.jp/products/labelsuse/rohs</u>

All other regions: www.bradyid.com/weee-rohs



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Details :

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000	
	-Substrate	0.0036 inch (0.0889 mm) 0.0010
	-Adhesive	inch (0.0254 mm)
	-Total	0.0046 inch (0.1143 mm)
Adhesion to:	ASTM D 1000	
-Stainless Steel	20 minute dwell	60 oz/inch (66 N/100 mm)
	24 hour dwell	61 oz/inch (67 N/100 mm)
-Textured ABS	20 minute dwell	24 oz/inch (26 N/100 mm)
	24 hour dwell	27 oz/inch (30 N/100 mm)
-Polypropylene	20 minute dwell	53 oz/inch (58 N/100 mm)
	24 hour dwell	57 oz/inch (62 N/100 mm)
Tack	ASTM D 2979	
	Polyken™	36.6 oz (1040 g)
	Probe Tack (0.5	
	second dwell)	
Tensile Strength and Elongation	ASTM D	
	1000 -	23 lbs/inch (403 N/100 mm), 106%
	Machine	

Performance properties tested on B-425A printed with the Brady Series R4300, the Brady Series R6200 and the Brady Series R6400 ribbons. Printed samples were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environmental conditions. Results the same for all ribbons unless noted otherwise.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS				
Short Term High Service Temperature	5 minutes at various temperatures	No visible effect to label at 266°F (130°C), very slight label shrinkage at 293°F (145°C) but still functional, slight discoloration and severe curl at 320°F(160°C).				
Long Term High Service Temperature	30 days at various temperatures	No visible effect to label at 176°F (80°C), slight label discoloration at 212°F (100°C) but label still functional, 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	wheels.	Appearance to print after 100 cycles: R4300: moderate to severe print removal; print barely legible. R6200: moderate print removal; print legible. R6400: slight/moderate print removal; print legible.				
¹ B-425 is not recommended for long-term outdoor use.						

PERFORMANCE PROPERTY CHEMICAL RESISTANCE

Chemical resistance tested on B-425A printed with the Brady Series R4300, the Brady Series R6200 and the Brady Series R6400 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	SUBJECTIVE OBSERVATION OF VISUAL CHAN ;E					
REAGENT	EFFECT TO	EFFECTS TO PRINTED IMAGE*				
	LABEL STOCK/ADHESIVE	R4300	R6200	R6400		
Methyl Ethyl Ketone	Moderate ooze	1	3-4	1		
Xylene	Severe ooze	2	4-5	1		
Toluene	No visible effect	1-2	4-5	1		
Acetone	No visible effect	1	4	1		
Mineral Spirits	Slight ooze	1	1	1		
JP-8 Jet Fuel	Moderate ooze	1	1	1		
Brake Fluid	No visible effect	1	3	1		
SAE 20 wt Oil RT	No visible effect	1	1	1		
SAE 20 wt Oil @ 70C	No visible effect	3	1	1		
ASTM #3 Oil	No visible effect	1	1	1		
Isopropyl Alcohol	Slight ooze	1	1	1		
Mil 5606 Oil	No visible effect	1	1	1		
Skydrol® 500B	No visible effect	1	4-5	1		
Formula 409®	No visible effect	1	1	1		
DI Water	No visible effect	1	1	1		
3% Alconox®	No visible effect	1	1	1		
Northwoods™ Buzz Saw Degreaser	No visible effect	5	5	5		
Super Agitene®	No visible effect	1	1	1		
10% Sulfuric Acid Solution	Slight ooze	1	1	1		
10% Sodium Hydroxide Solution	No visible effect	1	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

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

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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:

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. Skydrol® is a registered trademark of the Monsanto Company Alconox® is a registered trademark of the Alconox Company Super Agitene® is a registered trademark of the Graymills Corporation ASTM: American Society for Testing and Materials (U.S.A.) CSA: Canadian Standards Association UL: Underwriters Laboratories Inc. (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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