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Technical Data Sheet

BRADY B-428 THERMAL TRANSFER PRINTABLE METALLIZED POLYESTER LABEL STOCK

TDS No. B-428

Effective Date: 12/19/2019

Description: GENERAL

Print Technology: Thermal Transfer

Material Type: Metallized Polyester (3 mil film)

Finish: Matte, light gray appearance

Adhesive: Permanent Acrylic

APPLICATIONS

Designed for applications, like rating and serial plates, that utilize barcodes, alphanumerics, graphic symbols and logos and require nameplate-like quality.

RECOMMENDED RIBBONS

Brady Series R4300

Brady Series R6200 (alternate)

REGULATORY/AGENCY APPROVALS

UL: B -428 is a UL Recognized Component when printed with the Brady Series R4300 ribbon. See UL file MH17154 for specific details. UL information can be accessed online at UL.com in the UL Product iQ area.

CSA: B-428 is a CSA Accepted material when printed with the Brady Series R4300 Ribbon or R6200 Ribbon. See CSA

Acceptance Record LS 41833 for specific details. CSA information can be accessed online at *directories.csa-international.org*.

DIN VDE 0472 Part 815: Brady B-428 meets the requirements of a halogen-free material per DIN VDE 0472 part 815.

(Statement based on review or 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: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





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SPECIAL FEATURES

B-428 is designed to withstand numerous solvents and variable temperatures when applied to various surfaces.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000	
	-Substrate	0.0034 inch (0.086 mm)
	-Adhesive	0.0010 inch (0.026 mm) 0.0044 inch (0.1112 mm)
	-Total	
Adhesion to:	ASTM D 1000	
-Stainless Steel	20 minute dwell	30 oz/in (33 N/100 mm)
	24 hour dwell	40 oz/in (43 N/100 mm)
- Polypropylene	20 minute dwell	12 oz/in (13 N/100 mm)
	24 hour dwell	20 oz/in (22 N/100 mm)
Tack	ASTM D 2979	
	Polyken™ Probe Tack	29 oz (789 g)
	1 second dwell	

Performance properties tested on printed B-428 labels laminated to aluminum panels. Samples thermal transfer printed using the Brady Series R4300 ribbon.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at various temperatures	No visible effect to label at 248°F (120°C), Slight discoloration at 293°F (145°C), Moderate discoloration at 320°F (160°C), but label is still functional
Low Service Temperature	30 days at -40°F (-40 °C)	No visible effect
Humidity Resistance	30 days at 100°F (37°C), 95% R.H.	No visible effect
UV Light Resistance	30 days in UV Sunlighter™ 100	No visible effect
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	Slight topcoat yellowing
Salt Fog Resistance	30 days in 5% salt fog	No visible effect

PERFORMANCE PROPERTY CHEMICAL RESISTANCE

Samples printed with the Brady Series R4300 ribbon and the Brady Series R6200 ribbon. Test was conducted at room temperature after 24 hour dwell. Testing consisted of 5 cycles of 10 minute immersions in the specified chemical reagent followed by 30 minute recovery period. After final immersion, samples rubbed 10 times with a cotton swab immersed in test fluid after final immersion.

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CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE (R4300 RIBBON)			
SHEWIOAL REAGENT	EFFECT TO LABEL STOCK	EFFECT TO PRINT	EFFECT TO PRINT WITH RUB	
Methyl Ethyl Ketone	No visible effect	No visible effect	Moderate print removal	
1,1,1- Trichloroethane	No visible effect	No visible effect	Moderate print removal	
Toluene	No visible effect	No visible effect	Moderate print removal	
Mineral Spirits	No visible effect	No visible effect	No visible effect	
JP-4 Jet Fuel	No visible effect	No visible effect	No visible effect	
SAE 20 WT Oil	No visible effect	No visible effect	No visible effect	
SAE 20 WT Oil @ 70C	No visible effect	No visible effect	Severe print removal	
IPA	No visible effect	No visible effect	No visible effect	
ASTM #3	No visible effect	No visible effect	No visible effect	
Mil 5606 Oil	No visible effect	No visible effect	No visible effect	
Skydrol® 500B	No visible effect	No visible effect	Slight print removal	
Super Agitene®	No visible effect	No visible effect	No visible effect	
Deionized Water	No visible effect	No visible effect	No visible effect	
3% Alconox® Detergent	No visible effect	No visible effect	No visible effect	
10% Sulfuric Acid Solution	No visible effect	No visible effect	No visible effect	
10% Sodium Hydroxide Solution	No visible effect	No visible effect	No visible effect	

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CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE (R6200 RIBBON)			
CHEWICAL REAGENT	EFFECT TO LABEL STOCK	EFFECT TO PRINT	EFFECT TO PRINT WITH RUB	
Methyl Ethyl Ketone	No visible effect	No visible effect	Moderate print removal	
1,1,1- Trichloroethane	No visible effect	No visible effect	Moderate print removal	
Toluene	No visible effect	No visible effect	Moderate print removal	
Mineral Spirits	No visible effect	No visible effect	Slight print removal	
JP-4 Jet Fuel	No visible effect	No visible effect	Slight print removal	
SAE 20 WT Oil	No visible effect	No visible effect	No visible effect	
SAE 20 WT Oil @ 70C	No visible effect	No visible effect	Severe print removal	
IPA	No visible effect	No visible effect	Slight print removal	
ASTM #3	No visible effect	No visible effect	No visible effect	
Mil 5606 Oil	No visible effect	No visible effect	Slight print removal	
Skydrol® 500B	No visible effect	No visible effect	Moderate print removal	
Super Agitene®	No visible effect	No visible effect	Slight print removal	
Deionized Water	No visible effect	No visible effect	No visible effect	
3% Alconox® Detergent	No visible effect	No visible effect	No visible effect	
10% Sulfuric Acid Solution	No visible effect	No visible effect	No visible effect	
10% Sodium Hydroxide Solution	No visible effect	No visible effect	No visible effect	

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 applications.

Trademarks:

Alconox® is a registered trademark of Alconox Co.

Polyken™ is a trademark of Testing Machines Inc.

Skydrol® is a registered trademark of the Monsanto Company

Sunlighter™ is a trademark of the Test Lab Apparatus Company

Super Agitene® is a registered trademark of Graymills Corporation

ASTM: American Society for Testing and Materials (U.S.A.)

CSA: Canadian Standards Association

PSTC: Pressure Sensitive Tape Council (U.S.A.) SAE: Society of Automotive Engineers (U.S.A.) 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.

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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