



B430 70X190MM

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Technical Data Sheet

BRADYBONDZ™ B-430 THERMAL TRANSFER PRINTABLE GLOSSY CLEAR POLYESTER LABEL STOCK

TDS No. B-430

Effective Date: 06/27/2012

Description:

GENERAL

Print Technology: Thermal transfer

Materials Type: Clear polyester

Finish: Glossy

Adhesive: Permanent acrylic

APPLICATIONS

Rating and serial plates using alphanumerics, barcodes, graphic symbols and logos that require name plate quality.

RECOMMENDED RIBBONS

Brady series R6000

Brady series R6000 Halogen Free (previously known as R6000HF)

Brady series R4400 (colors - red, blue, green, white)

Brady series R4900 and R6200 (alternates)

REGULATORY/AGENCY APPROVALS

UL: B-430 is a UL Recognized Component to UL969 Labeling and Marking Standard when printed with Brady Series R6000, R6000 Halogen Free and R4900 ribbons. See UL file MH17154 for specific details. UL information can be accessed on line at [UL.com](#). Search in *Certifications* area.

CSA: B-430 is CSA Accepted to C22.2 No.0.15-95 Adhesive Labels Standard when printed with Brady Series R6000 ribbon. See CSA file 041833 for specific details. CSA information can be accessed online at [directories.csa-international.org](#).

Brady B-430 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTMD 1000 -Substrate -Adhesive -Total	0.002 inch (0.0508 mm) 0.001 inch (0.0254 mm) 0.003 inch (0.0762 mm)
Adhesion to: -Stainless Steel	ASTMD 1000 20 minute dwell 24 hour dwell	51 oz/inch (56 N/100 mm) 57 oz/inch (62 N/100 mm)
- Painted Enamel	20 minutes dwell 24 hour dwell	51 oz/inch (56 N/100 mm) 54 oz/inch (59 N/100 mm)
- Textured ABS	20 minutes dwell 24 hour dwell	10 oz/inch (10 N/100 mm) 10 oz/inch (10 N/100mm)
		36 oz/in (40 N/100 mm) 39 oz/in (42 N/100 mm)
- Polypropylene	20 minutes dwell 24 hour dwell	32 oz/in (35 N/100 mm) 43 oz/in (47 N/100 mm)

- Polyester Powder Coated Paint	20 minutes dwell 24 hour dwell	
Tack	ASTMD 2979 Polyken™ Probe Tack 1 second dwell	26 oz (800 g)
Dielectric Strength	ASTMD 1000	8400 volts

B-430 is not recommended for low surface energy surfaces such as polyethylene and polypropylene.

Performance properties tested on B-430 printed with Series R6000, R6000 Halogen Free and R6200 ribbons. Printed samples were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environments. Unless noted, results are the same for both ribbons.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
High Service Temperature	30 days at various temperatures	No visible effect to label at 100°C. Slight discoloration at 110°C; moderate discoloration at 145°C but label is still functional.
Low Service Temperature	30 days at -70°C	No visible effect
Short Term High Service Temperature	5 minutes at various temperatures	No visible effect to label at 180°C. Slight discoloration and label shrinkage at 200°C; label is functional. Label becomes nonfunctional at 220°C due to label shrinkage.
Humidity Resistance	30 days at 100°F (37°C) and 95% relative humidity.	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	No visible effect
Salt Fog Resistance	ASTM B 117 30 days in 5% salt fog solution chamber	No visible effect
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 250 g/arm (Fed. Std. 191A, Method 5306)	R6000: Print legible after 100 cycles R6000 Halogen Free: Print legible after 100 cycles

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples were printed with Series R6000, R6000 Halogen Free and R6200 ribbons. Samples were laminated to aluminum panels and allowed to dwell 24 hours prior to testing. Testing was conducted at room temperature and consisted of 30 minute immersions in the specified test fluid. After immersion, the samples were removed from the test fluid and the printed image 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	EFFECTS TO PRINTED IMAGE					
		R6000		R6000 Halogen Free		R6200	
		WITHOUT RUB	WITH RUB	WITHOUT RUB	WITH RUB	WITHOUT RUB	WITH RUB
Acetone	Slight adhesive ooze	1	5	1	5	1	5

Toluene	Slight adhesive ooze	1	5	1	5	1	5
Isopropyl Alcohol	No visible effect	1	1	1	1	1	1
Mineral Spirits	No visible effect	1	1	1	1	1	1
Gasoline	Slight adhesive ooze	1	1	1	1	1	1
JP-8 Jet Fuel	Slight adhesive ooze	1	1	1	1	1	1
Brake Fluid - DOT 3	No visible effect	1	4	1	4	1	4
Skydrol® 500B-4	Slight adhesive ooze	1	5	1	5	2-3	5
SAE 20 WT Oil at 70°C	No visible effect	1	1	1	1	1	1
MIL 5606 Oil	No visible effect	1	1	1	1	1	1
Formula 409® Cleaner	No visible effect	1	1	1	1	1	1
Northwoods™ Buzz Saw Citrus Degreaser	No visible effect	1	1	1	1	1	1
Deionized Water	No visible effect	1	1	1	1	1	1

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 (print illegible or just barely legible)

5= complete print and/or topcoat removal

NP= print removed prior to rub

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

BradyBondz™ is a trademark of Brady Worldwide, Inc.

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Northwoods™ is a trademark of the Superior Chemical Corporation

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

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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