Technical Data Sheet

BRADYBONDZ™ B-8425 GLOSS POLYPROPYLENE THERMAL TRANSFER PRINTABLE LABELSTOCK

TDS No. B-8425
Effective Date: 06/11/2009

Description:

GENERAL
Print Technology: Thermal Transfer
Material Type: White Polypropylene
Finish: Gloss
Adhesive: Permanent Acrylic

APPLICATIONS
B-8425 is designed for general purpose label, asset identification, rating plate, and warning/instructional labeling.

RECOMMENDED RIBBONS
Brady Series R6000 black thermal transfer ribbon and Series R4400 colored thermal transfer ribbons.

REGULATORY/AGENCY APPROVALS
UL: B-8425 is a UL Recognized Component to UL969 Labeling and Marking Standard when printed with Brady Series R6000 ribbon. See UL file MH17154 for specific details. UL information can be accessed online at *UL.com*. Search in *Certifications* area.
CSA: B-8425 is CSA Acccepted to C22.2 No.0.15-95 Adhesive Labels Standard when printed with the Brady Series R6000 ribbon. B-8425 is approved to Type A. See CSA file 041833 for specific details. CSA information can be accessed online at *directories.csa-international.org*.

Brady B-8425 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total	 0.0023 inch (0.0584 mm) 0.0008 inch (0.0203 mm) 0.0031 inch (0.0787 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	 35 oz/inch (38 N/100 mm) 41 oz/inch (44 N/100 mm)
-Smooth ABS	20 minute dwell 24 hour dwell	33 oz/inch (35 N/100 mm) 35 oz/inch (38 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	23 oz/inch (26 N/100 mm) 28 oz/inch (31 N/100 mm)
-Glass	20 minute dwell 24 hour dwell	34 oz/inch (38 N/100 mm) 37 oz/inch (40 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack (1 second dwell, 1 cm/sec separation)	22.9 oz (646 g)
Tensile Strength and Percent Elongation at Break	ASTM D 1000 -Machine -Cross Direction	 48 lbs/inch (841 N/100 mm), 35% 41 lbs/inch (718 N/100 mm), 47%

Performance properties tested using B-8425 printed with R6000 Series ribbon and a BradyPrinter™ THT Model 300 MVP Series Thermal Transfer Printer. Printed samples of B-8425 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 194°F (90°C)	No visible effect to label at 90°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% R.H.	No visible effect
UV Light Resistance	30 days in UV Sunlighter™ 100	No visible effect
Weatherability[1]	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	Moderate cracking of label stock. Label is still legible.
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 250 g/arm (Fed. Std. 191A, Method 5306)	Print legible to: R6000: 100 cycles

[1]B-8425 is not recommended for long-term outdoor use.

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE

Samples printed with R6000 Series ribbon. Samples laminated to aluminum panels and allowed to dwell 24 hours prior to testing. Test was conducted at room temperature except where noted. Testing consisted of 5 cycles of 10 minute immersions in the specified test fluid followed by a 30 minute recovery period. After final immersion, samples rubbed 10 times with cotton swab saturated with test fluid.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE	
	LABEL STOCK SUBSTRATE/ADHESIVE	R6000
Methyl Ethyl Ketone	No visible effect	No visible effect without rub, complete print removal after rub
Isopropyl Alcohol	No visible effect	No visible effect without rub, severe print removal after rub
Mineral Spirits	No visible effect	No visible effect without rub, slight print fade with rub
SAE 20 WT Oil	No visible effect	No visible effect with and without rub
Formula 409®	No visible effect	No visible effect without rub, severe print removal with rub
3% Alconox® Detergent	No visible effect	No visible effect without rub, moderate print fade with rub
10% Sodium Hydroxide Solution	No visible effect	No visible e ffect with and without rub
10% Sulfuric Acid Solution	No visible effect	No visible effect with and without rub

Product testing, customer feedback, and history of similar products, support a customerperformance 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:
Alconox® is a registered trademark of Alconox Co.
BradyPrinter™ is a trademark of Brady Worldwide, Inc.
Formula 409® is a registered trademark of the Clorox Company
Polyken™ is a trademark of Testing Machines Inc.
Sunlighter™ is a trademark of the Test Lab Apparatus Company
ASTM: American Society for Testing and Materials (U.S.A.)
SAE: Society of Automotive Engineers (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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