



BRADY B-427 THERMAL TRANSFER PRINTABLE TRANSLUCENT VINYL TAPE

TDS No. B-427
 Effective Date: 08-Jul-2008

Description:

GENERAL

Print Technology: Thermal Transfer

Material Type: Translucent vinyl

Finish: Provided in a self-laminated format with a white printable zone and a translucent overlaminating area.

Adhesive: Permanent acrylic

APPLICATIONS

B-427 is an excellent material for wire and cable identification. This material has good clarity, conformability and is self-extinguishing. B-427 has outstanding water and oil resistance.

RECOMMENDED RIBBONS

Brady Series R4300 black and R4500 colored (red, blue, green) for thermal transfer printing.

REGULATORY/AGENCY APPROVALS

B-427 is UL Recognized to UL969 Labeling and Marking Standard when printed with the Brady Series R4300 and R6200 ribbons. See UL files MH17154 for specific details.

B-427 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

Note- Due to past non-compliant B-427 materials in the market, only B-427 products with RoHS compliance statement on product packaging are RoHS compliant.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Total Thickness	0.0040 inch (0.102 mm)
Adhesion to:	ASTM D 1000	
-Stainless Steel	20 minute dwell 24 hour dwell	38 oz/in (42 N/100 mm) 49 oz/in (54 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	25 oz/in (28 N/100 mm) 33 oz/in (36 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack (1 second dwell, 1 cm/sec separation)	13.3 oz (378 g)
Drop Shear	PSTC-7 (except use 1/2" x 1" sample)	3.3 hours
Tensile Strength and Elongation	ASTM D 1000 -Machine -Cross	12 lbs/in (210 N/100 mm), 152% 11 lbs/in (193 N/100 mm), 195%

Flammability	ASTM D 1000 Average Burn Time	ABT less than 10 seconds
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Performance properties tested with white printable zone of B-427 printed with Brady Series R4300 black thermal transfer ribbon. Samples wrapped around 0.080" OD TFE wire in a self-laminating format.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at 158°F (70°C)	Slight discoloration. No visible effect at 140°F (60°C)
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
Weatherability	ASTM G 155, Cycle 1 30 days in Xenon Arc Weatherometer	No visible effect

PERFORMANCE PROPERTIES	CHEMICAL RESISTANCE
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White printable zone of B-427 was printed with Brady Series R4300 black thermal transfer ribbon. Samples wrapped around 0.080" OD TFE wire in a self-laminating format. Except where noted, testing was conducted at room temperature after 24 hour dwell. Testing consisted of 5 cycles of a 10 minute immersion in the specified test fluid followed by a 30 minute recovery period.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE	
	SUBSTRATE/ADHESIVE	SERIES R4300 RIBBON

Trademarks:

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

Formula 409® is a registered trademark of the Chlorox Company

Northwoods™ is a trademark of the Superior Chemical Corporation

PSTC: Pressure Sensitive Tape Council (U.S.A.)

Polyken™ is a trademark of Testing Machines Inc.

SAE: Society of Automotive Engineers (U.S.A.)

Skydrol® is a registered trademark of the Monsanto Company

UL: Underwriters Laboratories Inc. (U.S.A.)

Yellow 77® is a registered trademark of Ideal Industries, Inc.

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.

WARRANTY

Brady products are sold with the understanding that the buyers will test them in actual use and determine for themselves their adaptability to their intended uses. Brady warrants to the buyers that its products are free from defects in material and workmanship, but limits its obligation under this warranty to replacement of the product shown to Brady's satisfaction to have been defective at the time Brady sold it. This warranty does not extend to any persons obtaining the product from the buyers. This warranty is in lieu of any other warranty, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations or liability on Brady's part. Under no circumstances will Brady be liable for any loss, damage, expense, or consequential damages of any kind arising in connection with the use, or inability to use, Brady's products.

Specification Of Thermal Transfer Printable Labels

Application(s):	Panel Identification, Wire & Cable Marking
Agency	UL Recognized
Approval(s)/Compliance:	
Size:	2.000" W x 2.250" H (50.800 mm W x 57.150 mm H)
Printable Area:	2.000" W x 0.750" H (50.800 mm W x 19.050 mm H)
Web Width:	2.450" (62.23 mm)
Label Type/Style:	Self-Laminating Label
Vertical Repeat:	2.187" (55.55 mm)
Color:	White/Translucent
Finish:	Matte
Qty Per Row:	1
Material Type:	Vinyl
Material Description:	Self-Laminating Vinyl
Brady Material #:	B-427
Recommended Ribbon Series:	4300
Suggested Ribbon Part#:	R4311
Acceptable Ribbon Series:	6200, 4500 (colors)
Printer Compatibility:	BBP81, Brady 1244, Brady 1344, Brady 200MVP Plus, Brady 2461, Brady 300MVP Plus, Brady 300X-Plus II, Brady 3481, Brady 360X-Plus II, Brady 600X-Plus II, Brady 6441, Brady IP, Tagus T200, Tagus T300, Thermal Transfer Printers
Style:	Roll-Form, Radius Corners
Special Properties:	Excellent abrasion and smudge resistance, Excellent water & oil resistance, Self-Extinguishing, Self-Laminating
RoHS Compatibility:	Compliant with RoHS Directive. NOTE: All statements concerning RoHS Directive compliance refer to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC. Product compliance is based upon information provided by suppliers of the raw materials used by Brady to manufacture these products, or by independent laboratory testing of these products. As such, Brady makes no independent representations or warranties, express or implied, and assumes no liability in connection with the use of this information.
QTY/UOM:	1,500/Roll