

**BRADY B-292 DOT MATRIX PRINTABLE TRANSLUCENT VINYL TAPE**

TDS No. B-292  
Effective Date: 06/27/2012

**Description:**

**GENERAL**

**Print Technology:** Dot Matrix

**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-292 is an excellent material for wire and cable identification. This material has good clarity, conformability and is self-extinguishing. B-292 has outstanding water and oil resistance.

**RECOMMENDED RIBBONS**

Brady Series R2000, R5000 and R7300 black for dot matrix printing.

**REGULATORY/AGENCY APPROVALS**

B-292 is UL Recognized to UL969 Labeling and Marking Standard when printed with the Brady Series R2000, R5000, and R7300 dot matrix ribbons. See UL files MH10939 for specific details.

Brady B-292 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 -Total Thickness	0.0040 inch (0.102mm)
Adhesion to:  -Stainless Steel  -Polypropylene	ASTM D 1000  20 minute dwell 24 hour dwell  20 minute dwell 24 hour dwell	  38 oz/in (42 N/100 mm) 49 oz/in (54 N/100 mm)  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 ½" 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

Performance properties tested with white printable zone of B-292 printed with Brady Series R2000 and R5000 dot matrix ribbon links. 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)	No visible effect
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 G155, Cycle 1 30 days in Xenon Arc Weatherometer	No visible effect

PERFORMANCE PROPERTIES	CHEMICAL RESISTANCE
------------------------	---------------------

White printable zone of B-292 was printed with Brady Series R2000 and R5000 dot matrix ribbon inks. 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 R2000 INK SERIES R5000 INK
<b>Cleaners and Solvents</b>	No visible effect	No visible effect
Isopropyl Alcohol	No visible effect	No visible effect
Mineral Spirits	No visible effect	No visible effect
Northwoods™ Buzz Saw Terpene Cleaner	No visible effect	No visible effect
Formula 409®	No visible effect	No visible effect
Deionized Water	No visible effect	No visible effect
<b>Fuels, Oils and Lubricants</b>		
Gasoline	Moderate unwrap	No visible effect
Brake Fluid	No visible effect	No visible effect
SAE 30 WT Oil at 70°C	No visible effect	No visible effect
Yellow 77® Wire Pulling Lubricant	No visible effect	No visible effect
<b>Aerospace Related Fluids</b>		
JP-8 Jet Fuel	No visible effect	No visible effect
Skydrol® 500B-4	Material destroyed	NA
MIL-H-5606 Oil	No visible effect	No visible effect

B-292 is not recommended for use in harsh organic solvents such as methyl ethyl ketone, acetone, or 1,1,1-trichloroethane.

Shelf Life and Fitness for Use: Product testing, customer feedback, and history of similar products, support a customer performance expectation of one year 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. 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:**

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 representation 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 obligations 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 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.

Copyright 2017 Brady Worldwide, Inc. | All Rights Reserved  
Material may not be reproduced or distributed in any form without written permission

**BRADY B-292 DOT MATRIX PRINTABLE TRANSLUCENT VINYL TAPE**

TDS No. B-292  
 Effective Date: 06/27/2012

**Description:**

**GENERAL**

**Print Technology:** Dot Matrix

**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-292 is an excellent material for wire and cable identification. This material has good clarity, conformability and is self-extinguishing. B-292 has outstanding water and oil resistance.

**RECOMMENDED RIBBONS**

Brady Series R2000, R5000 and R7300 black for dot matrix printing.

**REGULATORY/AGENCY APPROVALS**

B-292 is UL Recognized to UL969 Labeling and Marking Standard when printed with the Brady Series R2000, R5000, and R7300 dot matrix ribbons. See UL files MH10939 for specific details.

Brady B-292 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 -Total Thickness	0.0040 inch (0.102mm)
Adhesion to:  -Stainless Steel  -Polypropylene	ASTM D 1000  20 minute dwell 24 hour dwell  20 minute dwell 24 hour dwell	  38 oz/in (42 N/100 mm) 49 oz/in (54 N/100 mm)  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

Performance properties tested with white printable zone of B-292 printed with Brady Series R2000 and R5000 dot matrix ribbon links. 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)	No visible effect
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 G155, Cycle 1 30 days in Xenon Arc Weatherometer	No visible effect

PERFORMANCE PROPERTIES	CHEMICAL RESISTANCE
------------------------	---------------------

White printable zone of B-292 was printed with Brady Series R2000 and R5000 dot matrix ribbon inks. 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 R2000 INK SERIES R5000 INK
<b>Cleaners and Solvents</b>	No visible effect	No visible effect
Isopropyl Alcohol	No visible effect	No visible effect
Mineral Spirits	No visible effect	No visible effect
Northwoods™ Buzz Saw Terpene Cleaner	No visible effect	No visible effect
Formula 409®	No visible effect	No visible effect
Deionized Water	No visible effect	No visible effect
<b>Fuels, Oils and Lubricants</b>		
Gasoline	Moderate unwrap	No visible effect
Brake Fluid	No visible effect	No visible effect
SAE 30 WT Oil at 70°C	No visible effect	No visible effect
Yellow 77® Wire Pulling Lubricant	No visible effect	No visible effect
<b>Aerospace Related Fluids</b>		
JP-8 Jet Fuel	No visible effect	No visible effect
Skydrol® 500B-4	Material destroyed	NA
MIL-H-5606 Oil	No visible effect	No visible effect

B-292 is not recommended for use in harsh organic solvents such as methyl ethyl ketone, acetone, or 1,1,1-trichloroethane.

Shelf Life and Fitness for Use: Product testing, customer feedback, and history of similar products, support a customer performance expectation of one year 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. 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:**

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 representation 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 obligations 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 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.

Copyright 2017 Brady Worldwide, Inc. | All Rights Reserved  
Material may not be reproduced or distributed in any form without written permission