



143-542 TO 143-547

151-263 TO 151-267

Technical Data Sheet

European Research and Innovation Center

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W.H. BRADY Co., Ltd.

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TDS No. 500

March 13, 1984

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QUALITY, TRADITION, INNOVATION

A PRODUCT OF THE INDUSTRIAL PRODUCTS DIVISION

BRADY B-500 POLYMER COATED CLOTH TAPE

- Description:** Brady B-500 is a printed polymer coated cloth tape with a pressure sensitive adhesive.
- Use:** Brady B-500 is a general purpose material for a variety of labels and wire markers requiring durability and economy.
- Special Properties:** B-500 has good conformability and an aggressive adhesive.
- Adhesive Type:** Pressure-sensitive synthetic rubber
- Substrate Type:** Polymer coated cloth.
- Colors:** White, yellow, green, red, blue, orange, purple, aluminum and pink.

PROPERTIES	TEST METHODS	AVERAGE RESULTS		
		EFFECT	CONVENTIONAL UNITS (USA)	S.I.* UNITS
Adhesion to: - Stainless Steel	PSTC-1 (180°)			
	20 minute dwell	Adhesive failure	40 oz/in	43.8 N/100 mm
	24 hour dwell	Adhesive failure	50 oz/in	54.7 N/100 mm

* All S.I. units are mathematically derived from the U.S. conventional units.

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WARRANTY

"Brady products are sold with the understanding that the buyer will test them in actual use and determine for himself their adaptability to his intended uses. Brady warrants to the buyer 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 buyer. 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 in whatsoever caused whether by negligence or otherwise save that Brady accepts liability for death and personal injury caused by its proven negligence.

Note: All values shown are averages and should not be used for specification purposes.

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PROPERTIES	TEST METHODS	AVERAGE RESULTS		
		EFFECT	CONVENTIONAL UNITS (USA)	S.I.* UNITS
- Polypropylene	20 minute dwell	Adhesive failure	40 oz/in	43.8 N/100 mm
	24 hour dwell	Adhesive failure	50 oz/in	54.7 N/100 :
- Textured ABS	20 minute dwell	Adhesive failure	20 oz/in	21.9 N/100 mm
	24 hour dwell	Adhesive failure	20 oz/in	21.9 N/100 mm
Tack	ASTM D2979-71; Polyken Probe Tack (1 second dwell, 1 cm/sec separation)		650 g/cm ²	6.4 N/cm ²
Drop Shear	PSTC-7 (except use 1/2" x 1" sample)		5.1 hrs.	5.1 hrs.
Thickness	PSTC-31			
- Total			0.008 in	0.206 mm
Tensile Strength	PSTC-31			
- Machine			45 lb/in	788 N/100 mm
- Cross			30 lb/in	525 N/100 mm

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BRADY

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QUALITY, TRADITION, INNOVATION

PROPERTIES	TEST METHODS	AVERAGE RESULTS		
		EFFECT	CONVENTIONAL UNITS (USA)	S.I.* UNITS
Elongation	PSTC-31		10%	10%
			20%	20%
Stiffness	PSTC-37		0.14 Taber Units	0.14 Taber Units
			0.10 Taber Units	0.10 Taber Units
Service Temperatures	30 day exposure	Very slight discoloration at 180°F (82°C)	-40°F - 180°F	-40°C - 82°C
Thermal Shock	ASTM D-759-66 6 cycles -- at least 6 hours at 266°F (130°C) and 16 hours at -40°F (-40°C)	No visible effects		
Weatherability	ASTM G-26-70 (Xenon Arc 30 days)			
	Tape Only:	No visible effects		
U.V. Light Resistance	Sunlighter 100** 30 days	No visible effects		

* All S.I. units are mathematically derived from the U.S. conventional units.

** Sunlighter is a trademark of the Test Lab Apparatus Company.

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PROPERTIES	TEST METHODS	AVERAGE RESULTS		
		EFFECT	CONVENTIONAL UNITS (USA)	S.I.* UNITS
Humidity Resistance	30 days at 100°F, 95% R.H.	No visible effects		
Dielectric Strength	UL510		2500 Volts Total	2500 Volts Total

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QUALITY, TRADITION, INNOVATION

PROPERTIES	TEST METHODS
Chemical Resistance	ASTM D-896

All testing was conducted at room temperature and consisted of five (5) immersions in the specified chemical reagents. The samples were immersed for 10 minutes, followed by a 30 minute recovery before the next immersion. Pre-test performance of the samples was determined by PSTC-1; 24 hour dwell, and recorded as: 47 oz/in.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE	PERCENTAGE OF PERFORMANCE RETENTION
Methyl Ethyl Ketone	Total topcoat washout	40%
1,1,1,Trichloroethane	Partial topcoat washout; severe adhesive softening	0%
ASTM Reference Fuel B	No visible effects	10%
¹ Alcohol Mix	No visible effects	65%
² Skydrol 500B	Severe topcoat and adhesive softening	0%
³ Super Agitene	No visible effects	75%
Rust Veto 377	No visible effects	75%
⁵ Thread Ezy	No visible effects	90%
Mil. Spec. 5606 Oil	No visible effects	95%
SAE 20W Oil	No visible effects	105%
⁶ 3% Alconox	No visible effects	100%
Deionized Water	No visible effects	65%

1 50% Ethanol, 30% Methanol, 20% Water by volume.

2 Skydrol is a trademark of the Monsanto Company.

3 Super Agitene is a trademark of the Graymills Corporation.

4 Rust Veto is a trademark of the E.F. Houghton Company.

5 Thread Ezy is a trademark of the Toledo-Beaver Tools Company.

6 Alconox is a trademark of Alconox, Inc.

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Shelf Life: 2 years at 70°F (21°C) and 40 to 50% R.H.

ASTM: American Society for Testing and Materials (U.S.A.)
PSTC: Pressure Sensitive Tape Council (U.S.A.)
UL: Underwriters Laboratories, Inc. (U.S.A.)
S.A.E: Society of Automotive Engineers
S.I.: International System of Units