

## BRADY B-483 THERMAL TRANSFER PRINTABLE LABEL

### Description:

**B-483** is a glossy white polyester film with a permanent rubber based adhesive and a topcoat specifically formulated for thermal transfer printing.

**B-483** is designed for high adhesion to textured metals and low surface energy plastics.

**B-483** is specifically designed to adhere to powder coated surfaces.

Recommended ribbons are Series R6000 or Series R4900 black thermal transfer ribbons, and Series R4400 colored thermal transfer ribbons.

**B-483** is UL Recognized to UL969 Labeling and Marking Standard when printed with the Brady Series R6000 and R4900 ribbons. See UL files MH17154 for specific details. **B-483** is CSA Accepted to CAN/CSA-C22.2 No. 0.15-M95 Standard for Adhesive Labels when printed with the Brady Series R6000 ribbon. See CSA file LS 41833 for specific details.

### Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
<b>Thickness</b>	ASTM D 1000 -Substrate -Adhesive -Total	0.0020 inch (0.051 mm) 0.0020 inch (0.051 mm) 0.0040 inch (0.102 mm)

<b>Adhesion to:</b> <b>-Stainless Steel</b>  <b>-Textured ABS</b>  <b>-Polypropylene</b>  <b>-Painted Enamel</b>  <b>-Powder Coated Metal</b>	ASTM D 1000 20 minute dwell 24 hour dwell	155 oz/in (169 N/100 mm) 160 oz/in (174 N/100 mm)
	20 minute dwell 24 hour dwell	55 oz/in (60 N/100 mm) 54 oz/in (59 N/100 mm)
	20 minute dwell 24 hour dwell	140 oz/in (153 N/100 mm) 143 oz/in (156 N/100 mm)
	20 minute dwell 24 hour dwell	144 oz/in (157 N/100 mm) 149 oz/in (162 N/100 mm)
	20 minute dwell 24 hour dwell	102 oz/in (111 N/100 mm) 104 oz/in (113 N/100 mm)
<b>Tack</b>	ASTM D 2979 Polyken™ Probe Tack 0.5 second dwell	39 oz (1122 g)

Performance properties tested on **B-483** printed with alphanumerics, and a 5 mil and 10 mil minimum X dimension barcode using Series R6000 and R4900 ribbons and a BradyPrinter™ THT 300X Thermal Transfer Printer. Printed samples of B-483 were laminated to aluminum before exposure to the indicated environmental condition. Results the same for both ribbons unless noted otherwise.

<b>PERFORMANCE PROPERTIES</b>	<b>TEST METHODS</b>	<b>TYPICAL RESULTS</b>
<b>Long Term High Service Temperature</b>	30 days at 248°F (120°C)	No visible effect
<b>Long Term Low Service Temperature</b>	30 days at -40°F (-40°C)	No visible effect
<b>Humidity Resistance</b>	30 days at 100°F (37°C), 95% R.H.	No visible effect
<b>UV Light Resistance</b>	30 days in UV Sunlighter™ 100	No visible effect

<b>Weatherability</b>	ASTM G 26 30 days in Xenon Arc Weatherometer	No visible effect
<b>Salt Fog Resistance</b>	ASTM B 117 30 days in 5% salt fog solution chamber	No visible effect

**PERFORMANCE PROPERTY****CHEMICAL RESISTANCE**

Samples printed with Series R6000 and R4900 ribbons using a BradyPrinter™ THT Model 300X Thermal Transfer Printer. Test were conducted after 24 hour dwell. Testing consisted of 5 cycles of 10 minute immersions in the specified chemical reagent followed by 30 minute recovery periods. After final immersion, samples rubbed 10 times with cotton swab saturated with test fluid.

<b>CHEMICAL REAGENT</b>	<b>SUBJECTIVE OBSERVATION OF VISUAL CHANGE</b>		
	<b>EFFECT TO LABEL STOCK</b>	<b>R4900</b>	<b>R6000</b>
<b>Methyl Ethyl Ketone</b>	Slight adhesive ooze	No visible effect w/o rub, complete print removal after rub	No visible effect w/o rub, complete print removal after rub
<b>1,1,1-Trichloroethane</b>	No visible effect	No visible effect w/o rub, complete print removal after rub	No visible effect w/o rub, complete print removal after rub
<b>Toluene</b>	No visible effect	No visible effect w/o rub, complete print removal after rub	No visible effect w/o rub, complete print removal after rub
<b>Isopropyl Alcohol</b>	No visible effect	No visible effect with or without rub	No visible effect with or without rub
<b>Mineral Spirits</b>	Slight adhesive ooze	No visible effect with or without rub	No visible effect with or without rub

<b>JP-8 Jet Fuel</b>	No visible effect	No visible effect with or without rub	No visible effect with or without rub
<b>SAE 20 WT Oil</b>	No visible effect	No visible effect with or without rub	No visible effect with or without rub
<b>Mil 5606 Oil</b>	Slight adhesive ooze	No visible effect with or without rub	No visible effect with or without rub
<b>Speedi Kut Cutting Oil 332</b>	No visible effect	No visible effect with or without rub	No visible effect with or without rub
<b>Gasoline</b>	No visible effect	No visible effect w/o rub, slight print removal after rub	No visible effect w/o rub, slight print removal after rub
<b>Rust Veto® 342</b>	No visible effect	No visible effect with or without rub	No visible effect with or without rub
<b>Skydrol® 500B-4</b>	No visible effect	Moderate print removal w/o rub, complete print removal with rub	No visible effect w/o rub, complete print removal after rub
<b>Super Agitene®</b>	Slight adhesive ooze	No visible effect with or without rub	No visible effect with or without rub
<b>Deionized Water</b>	No visible effect	No visible effect with or without rub	No visible effect with or without rub
<b>3% Alconox® Detergent</b>	No visible effect	No visible effect with or without rub	No visible effect with or without
<b>Northwoods™ Buzz Saw Citrus Degreaser</b>	No visible effect	No visible effect	No visible effect

DISTRIBUTED BY: [LANshack.com](http://LANshack.com)  
Toll Free: 888-568-1230  
E-mail: [sales@lanshack.com](mailto:sales@lanshack.com)  
Web: [www.lanshack.com](http://www.lanshack.com)