

**BRADY B-605 OVERLAMINATED WIRE MARKER**

TDS No. B-605  
Effective Date: 06/11/2009

**Description:**

**GENERAL**

**Print Technology:** Preprinted  
**Material Type:** White Polyvinylfluoride overlaminated with clear polyester film  
**Finish:** Glossy  
**Adhesive:** Permanent Acrylic

**APPLICATIONS**

Wire marking applications

**REGULATORY**

Brady B-605 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

**SPECIAL FEATURES**

B-605 has excellent flexibility and solvent and abrasion resistance. B-605 is available in white with printed legend and solid colors.

**Details:**

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate (PVF Film and Overlamine) -Adhesive -Total	0.0024 inch (0.061 mm)  0.0010 inch (0.025 mm) 0.0034 inch (0.086 mm)
Adhesion to:	ASTM D 1000	
-Stainless Steel	20 minute dwell 24 hour dwell	26 oz/in (28 N/100 mm) 33 oz/in (36 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	12 oz/in (13 N/100 mm) 12 oz/in (13 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	12.3 oz (350 g)
Tensile Strength and Elongation	ASTM D 1000	17 lbs/in (298 N/100 mm), 85%
Application Temperature	Lowest application Temperature to steel	50°F (10°C)

The following testing is performed with pre-printed B-605 wiremarkers and flat samples. Wiremarker samples were wrapped on 0.080" OD wires and flat samples were applied to flat aluminum panels. All samples allowed to dwell 24 hours prior to testing.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at 248°F (120°C)	No visible effect at 90°C. Slight discoloration but still functional at 120°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
UV Light Resistance	30 days in UV Sunlighter™ 100	No visible effect
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	No visible effect*
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 1000 g/arm (Fed. Std. 191A, Method 5306)	Polyester overlamine worn through at 350 cycles.

\* Results reported for white tape with black print. Many of the solid color samples fade severely in weatherometer test.

**PERFORMANCE PROPERTY**

**SOLVENT RESISTANCE**

Pre-printed wiremarkers were wrapped around 0.080" OD wire and also were laminated to flat aluminum panels. Samples allowed to dwell 24 hours prior to test. Testing consisted of 5 cycles of 10 minute immersions in the specified chemicals followed by 30 minute recovery periods. Testing was conducted at room temperature.

CHEMICAL REAGENT	APPEARANCE OF WIREMARKER	APPEARANCE OF FLAT SAMPLE
Methyl Ethyl Ketone	Moderate unwrap	Moderate wrinkling of overlamine at edges.
1,1,1-Trichloroethane	Slight unwrap	Slight swelling of edges
Isopropyl Alcohol	No visible effect	No visible effect
JP-8 Jet Fuel	Slight unwrap	Slight swelling at edges
SAE 20 WT Oil	No visible effect	No visible effect
Mil 5606 Oil	No visible effect	No visible effect
Speedi Kut Cutting Oil 332	No visible effect	No visible effect
Gasoline	Slight adhesive ooze and unwrap	Slight adhesive ooze
Rust Veto® 377	No visible effect	No visible effect
Skydrol® 500B-4	Slight unwrap	Slight swelling at edges
Super Agitene®	No visible effect	Slight swelling at edges
Alphametals BIOACT® EC-7R™	Slight unwrap	Slight swelling at edges
Deionized Water	No visible effect	No visible effect
3% Alconox® Detergent	No visible effect	No visible effect

Product testing, customer feedback, and history of similar products, support a customer performance 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.  
 BIOACT® is a registered trademark of Petroferm, Inc.  
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 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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