BRADY B-361B CLEAR POLYESTER FILM TAPE

TDS No. B-361B
Effective Date: 16-Jul-2008

Description:
GENERAL
Print Technology: Laser
Material Type: Clear polyester
Finish: Clear film with matte white printable zone coated ink
Adhesive: Permanent acrylic

APPLICATIONS
WIre and cable identification

REGULATORY
Brady B-361 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

SPECIAL FEATURES
Brady B-361B is used in a self-laminating format which has a white printable or write-on zone and a translucent overlaminating area.
Brady B-361B has good print smudge resistance, solvent resistance, and elevated temperature performance.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total	 0.0010 inch (0.025 mm) 0.0010 inch (0.025 mm) 0.0020 inch (0.050 mm)
Adhesion to: -Stainless Steel -Textured ABS -Polypropylene	ASTM D 1000 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell	 34 oz/in (37 N/100 mm) 38 oz/in (42 N/100 mm) 9 oz/in (10 N/100 mm) 9 oz/in (10 N/100 mm) 16 oz/in (18 N/100 mm) 16 oz/in (18 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	16 oz (450 g)
Tensile Strength and Elongation	ASTM D 1000 -Machine Direction	17 lbs/in (298 N/100 mm), 50%
Application Temperature	Lowest application temperature to stainless steel	50°F (4°C)

The following testing is performed with the B-361B self-laminates printed with laser printer . Samples wrapped around 0.080" OD TFE jacketed wires and 0.250" OD MTW wires. Unprinted samples also 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 230°F (110°C)	Slight discoloration at 110°C; no visible effect to laser print. Material discolored but functional up to 130°C.
Low Service Temperature	30 days at -94°F (-70°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
Salt Fog Resistance	ASTM B 117 30 days in 5% salt fog solution chamber	No visible effect

PERFORMANCE PROPERTY	SOLVENT RESISTANCE

B-361B self-laminate samples were printed with laser printer. Samples wrapped around 0.080" OD TFE jacketed wires and 0.250" OD MTW wires and dwelled 24 hours prior to test. Unprinted samples also applied to flat aluminum panels. 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	SUBJECTIVE OBSERVATION OF VISUAL CHANGE		
	APPEARANCE OF MARKER ON 0.080" OD WIRE	APPEARANCE OF MARKER ON 0.250" OD WIRE	APPEARANCE OF FLAT LABEL ON ALUMINUM PANEL
Methyl Ethyl Ketone	Severe unwrap	Slight unwrap	Slight adhesive ooze
1,1,1-Trichloroethane	Slight unwrap	No visible effect	Slight adhesive ooze
Isopropyl Alcohol	Slight unwrap	No visible effect	No visible effect
Mineral Spirits	No visible effect	No visible effect	No visible effect
JP-4 Jet Fuel	Slight unwrap	No visible effect	No visible effect
JP-8 Jet Fuel	Slight unwrap</ font>	No visible effect	No visible effect
SAE 20 WT Oil	No visible effect	No visible effect	No visible effect
Mil 5606 Oil	No visible effect	No visible effect	No visible effect
Speedi Kut Cutting Oil 332	No visible effect	No visible effect	No visible effect
Gasoline	Slight unwrap	Slight unwrap	Slight adhesive ooze
Rust Veto® 377	No visible effect	No visible effect	No visible effect
Skydrol® 500B-4	Slight unwrap	No visible effect	Slight adhesive ooze
Super Agitene®	No visible effect	No visible effect	No visible effect
Deionized Water	No visible effect	No visible effect	No visible effect
3% Alconox® Detergent	No visible effect	No visible effect	No visible effect

Laser printing legible in all test fluids.

Product testing, customer feedback, and history of similar products, support a customerperformance 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 degrees 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.
Polyken™ is a trademark of Testing Machines Inc.
Rust Veto® is a registered trademark of the E.F. Houghton & Co.
Skydrol® is a registered trademark of the Monsanto Company
Sunlighter™ is a trademark of the Test Lab Apparatus Company
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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 U.S. conventional units.

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