BRADY
WHEN PERFORMANCE MATTERS MOST™

Technical Data Sheet

BRADY B-12 ACETATE CLOTH TAPE

TDS No. B-12
Effective Date: 06/29/2011

Description:

GENERAL
Print Technology: n/a
Material Type: Acetate cloth
Finish: Off white
Adhesive: Permanent Rubber-based Thermosetting

APPLICATIONS
Brady B-12 is designed to withstand elevated temperatures and is good for wire identification where bake cycles or varnish dips are involved.

REGULATORY APPROVALS
Brady B-12 is RoHS compliant to 2005/618/EC MCV amendment to RoHS DIrective 2002/95/EC.

SPECIAL FEATURES
Brady B-12 has good tensile strength and has good flexibility for wrapping around wires.

Other colors are available upon request.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Cloth -Adhesive -Total	 0.006 inch (0.152 mm) 0.002 inch (0.050 mm) 0.008 inch (0.202 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	 45 oz/in (49 N/100 mm) 57 oz/in (62 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	26 oz/in (28 N/100 mm) 38 oz/in (42 N/100 mm)
-Textured ABS	20 minute dwell 24 hour dwell	26 oz/in (28 N/100 mm) 33 oz/in (36 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	6.3 oz (180 g)
Tensile Strength and Elongation	ASTM D 1000 -Machine Direction	40 lbs/in (700 N/100 mm), 10%
Dielectric Strength	ASTM D 1000	1500 volts
Application Temperature	Lowest application temperature to steel	50°F (10°C)

B-12 samples tested for Performance Properties were applied to flat aluminum panels and wrapped around 0.080" OD TFE jacketed wire. Samples allowed to dwell 24 hours at room temperature prior to testing.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at 221°F (105°C)	Very slight cloth discoloration
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	Severe material shrinkage and degradation

Salt Fog Resistance	ASTM B 117 30 days in 5% salt fog solution chamber	No visible effect

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE

Samples were laminated to aluminum panels and wrapped around 0.080" OD TFE jacketed wire. Samples dwelled 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	SUBJECTIVE OBSERVATION OF VISUAL CHANGE
1,1,1-Trichloroethane	Adhesive dissolved, severe wiremarker unwrap
Isopropyl Alcohol	Moderate wiremarker unwrap
SAE 20 WT Oil	Adhesive separates from cloth, severe wiremarker unwrap
Deionized Water	No visible effect
3% Alconox® Detergent	No visible effect
Northwoods™ Buzz Saw Citrus Degreaser	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°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.
Northwoods™ is a trademark of the Superior Chemical Corporation.
Polyken™ is a trademark of Testing Machines Inc.
Sunlighter™ is a trademark of the Test Lab Apparatus Company
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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