

BRADY B-917 ALUMINUM FOIL TAPE

TDS No. B-917
Effective Date: 12/09/1999

Description:

Brady B-917 is a full hard aluminum foil with a permanent acrylic pressure sensitive adhesive.

Brady B-917 is used primarily for pre-printed general identification labels and rating plates.

Brady B-917 has a matte appearance. The aluminum foil used in B-917 is conductive.

Brady B-917 is UL Recognized (file MH10939) and CSA Accepted (file LS41833) when printed with designated printing inks.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate (foil) -Adhesive -Total	0.0020 inch (0.051 mm) 0.0015 inch (0.038 mm) 0.0035 inch (0.089 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	126 oz/in (138 N/100 mm) 138 oz/in (151 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	112 oz/in (123 N/100 mm) 124 oz/in (136 N/100 mm)
-Textured ABS	20 minute dwell 24 hour dwell	42 oz/in (46 N/100 mm) 47 oz/in (51 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	49 oz (1385 g)
Tensile Strength and Elongation	ASTM D 1000	26 lbs/in (455 N/100 mm), 5%
Application Temperature	Lowest Application Temperature to Steel	50°F (10°C)

B-917 samples tested for Performance Properties were applied to aluminum panels and allowed to dwell 24 hours at room temperature prior to testing. Samples were tested unprinted.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at 248°F (120°C)	Very slight label discoloration at 120°C. At higher temperatures up to 145°C, label is still functional, but discolors to a brownish / gold color.
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
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 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	Slight adhesive ooze
Isopropyl Alcohol	No visible effect
ASTM Reference Fuel B	Slight adhesive ooze

SAE 20 WT Oil	No visible effect
Mil-H-5606 Oil	No visible effect
Speedi Kut Cutting Oil 332	No visible effect
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 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.
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.)
CSA: Canadian Standards Association
SAE: Society of Automotive Engineers (U.S.A.)
U.L.: Underwriters Laboratories Inc. (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.

Product compliance information is based upon information provided by suppliers of the raw materials used by Brady to manufacture this product or based on results of testing using recognized analytical methods performed by a third party, independent laboratory. As such, Brady makes no independent representations or warranties, express or implied, and assumes no liability in connection with the use of this information.

WARRANTY

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