Technical Data Sheet

BRADY B-917 ALUMINUM FOIL TAPE

TDS No. B-917
Effective Date: 09/26/2019

GENERAL
Print Technology: None
Material Type: Aluminum
Finish: Matte, light gray appearance
Adhesive: Permanent acrylic

APPLICATIONS
Brady B-917 is used primarily for preprinted general identification labels and rating plates.

REGULATORY
For information on the Weee-RoHS compliance status for a Brady Product go to one of the following websites:
In Canada: www.bradycanada.ca/weee-rohs
In Europe: www.bradyeurope.com/rohs
In Japan: www.brady.co.jp/products/labelsuse/rohs
All other regions: www.bradyid.com/weee-rohs

SPECIAL FEATURES
The aluminum foil used in B-917 is conductive.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate (foil) -Adhesive -Total (excluding liner)	 0.0020 inch (0.051 mm) 0.0015 inch (0.038 mm) 0.0035 inch (0.089 mm)
Adhesion to: -Stainless Steel -Polypropylene -Textured ABS	ASTM D 1000 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell	 126 oz/in (138 N/100 mm) 138 oz/in (151 N/100 mm) 112 oz/in (123 N/100 mm) 124 oz/in (136 N/100 mm) 42 oz/in (46 N/100 mm) 47 oz/in (51 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 0.5 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 various temperatures	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

Shelf Life:
Shelf life is 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. It remains the responsibility of the user to assess the risk of using this product. We encourage customers to develop testing protocols that will qualify a product's fitness for use in their actual application.

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.)
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.

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