

BRADY B-147 3-IN-1 SIGNS (REFLECTIVE FIREFLY® ALUMINUM SIGNS)

TDS No. B-147

Effective Date: 3/05/2019

Description:

B-147 3-IN-1 SIGNS (REFLECTIVE FIREFLY® ALUMINUM SIGNS) is a fluorescent, Diamond grade reflective, photoluminescent aluminum backed safety sign. The panels are round-cornered and punched for application to rigid surfaces.

Details:

Use:

Brady B-147 3-IN-1 SIGNS (REFLECTIVE FIREFLY® ALUMINUM SIGNS) are used as utility plant markings.

Relevant Standards:

Coefficients of Retroreflection - ASTM E-810

Substrate Type:

Reflective Aluminum

Standard Material Colors:

Silver, Orange and yellow

Standard Legend Colors:

Black, Red

Illumination Characteristics

Illumination: 21.6 lux (2 foot-candles) for 2 hrs with a 4100K cool white fluorescent lamp.

Luminance (after illumination):

10 minutes >29 mcd/m²

60 minutes > 7 mcd/m²

90 minutes > 5 mcd/m²

120 minutes >3 mcd/m²

Thickness (PSTC-33):

0.041" to 0.067" (1.0414 mm to 1.7018 mm)

Abrasion Resistance (Method 5306 of U.S. Federal Test Method Std. No. 191A):

CS17 wheels, 500 g. weight

Legend withstands up to 1600 cycles

Gloss (ASTM D523):

60° - 140 Gardner Units

Service Temperature:

-40°F to 175°F (-40° to 80°C)

Average Outdoor Durability:

Up to 7 years (average expected outdoor life of product will depend on user definition of failure and climatic conditions).

REGULATORY APPROVALS

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

Chemical Resistance:

REAGENT	7 DAY IMMERSION	DIP TEST	RUB TEST
30% Sulfuric Acid	NE	NE	NE
10% Sulfuric Acid	NE	NE	NE
30% Hydrochloric Acid	NE	NE	NE
10% Hydrochloric Acid	NE	NE	NE
Glacial Acetic Acid	F	F	F
5% Acetic Acid	NE	NE	NE
50% Sodium Hydroxide	F	F	NE
10% Sodium Hydroxide	F	NE	NE
10% Ammonia	NE	NE	NE
5% Sodium Hypochlorite	NE	NE	NE
Methyl Ethyl Ketone	F	F	F
Acetone	F	F	F
Toluene	F	F	F
Methanol	F	NE	F
Isopropyl Alcohol	NE	NE	F
Heptane	NE	NE	NE
Mineral Spirits	NE	NE	NE
Turpentine	F	F	F
Kerosene	NE	NE	NE
Diesel Fuel	NE	NE	NE
Gasoline	NE	NE	F
ASTM #3 Oil	NE	NE	NE
SAE 20 Oil	NE	NE	NE
10% Sodium Chloride	NE	NE	NE
Alconox®	NE	NE	NE
Water	NE	NE	NE
Formula 409® Cleaner	NE	NE	NE

NE = No Effect

NT = Not Tested

F = Failed (affected Sample)

7 Day Immersion: Immersed in reagent for 7 days.

Dip Test: Five 10 minute dips in reagent with 30 minute recovery.

Rub Test: Rubbed sample for 1 minute with swab soaked in reagent.

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:

ASTM: American Society for Testing and Materials (U.S.A.)

Alconox® is a registered trademark of Alconox Co.

Fed. Spec.: United States Federal Specification (U.S.A.)

Firefly® is a registered trademark of Permar Systems, Inc.

Formula 409® is a registered trademark of the Clorox Company

PSTC: Pressure Sensitive Tape Council (U.S.A.)

SAE: Society of Automotive Engineers (U.S.A.)

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.

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Brady products are sold with the understanding that the buyers will test them in actual use and determine for themselves their adaptability to their intended uses. Brady warrants to the buyers that its products are free from defects in material and workmanship, but limits its obligation under this warranty to replacement of the product shown to Brady's satisfaction to have been defective at the time Brady sold it. This warranty does not extend to any persons obtaining the product from the buyers. This warranty is in lieu of any other warranty, express or implied, including, but not limited to, any implied warranty of

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