

HIGH INTENSITY PRISMATIC REFLECTIVE SHEETING

TDS No. B-309

Effective Date: 06/29/2011

Description:

Brady B-309 is High Intensity Prismatic Reflective Sheeting with black characters bordered with photoluminescent (glow-in-the dark) material and backed with a pressure sensitive adhesive.

Details:

Use:

Brady B-309 is used for general labeling; designed for permanent applications indoors as well as severe outdoor environments. Special acrylic adhesive adheres strongly, making marker removal difficult.

Special Properties

The ultra reflective technology allows for maximum visibility from a greater distance, wider angle and lower light source than standard reflective vinyl, while the photoluminescent border gives the character distinct definition in blackout conditions.

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

Adhesive Type:

Pressure sensitive acrylic

Substrate Type:

Reflective Sheeting

Standard Material Colors:

Silver

Standard Legend Colors:

Black with Photoluminescent border

Relevant Standards:

Exceeds application requirements of Type III & IV per ASTM - D 4956

Thickness (PSTC-33)

0.0155 in. (0.3937 mm)

Minimum Application Temperature

65°F or 18°C

Adhesive Properties:

Adhesion to Steel (PSTC-1)

15 Minute Dwell (Avg.) -- destroys

Ultimate Dwell (72 Hrs.) (Avg.) -- destroys

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

CS17 wheels, 1000g. weight

Legend withstands 334 cycles

Gloss (ASTM D523):

60° gloss on reflective area - 92 Gardner gloss units

Service Temperature:

-40°F to 212°F (-40°C to 100°C)

Average Outdoor Durability:

Up to 12 years outdoors (average expected outdoor life of product will depend on user definition of failure and climatic conditions).

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	NE	NE	NE
10% Sodium Hydroxide	NE	NE	NE
10 % Ammonia	NE	NE	NE
5% Sodium Hypochlorite	NE	NE	NE
10% Sodium Chloride	NE	NE	NE
Methyl Ethyl Ketone	F	F	F
Acetone	F	F	F
Toluene	F	F	F
Methanol	F	F	F
Isopropyl Alcohol	NE	F	F
Heptane	NE	NE	NE
Mineral Spirits	NE	NE	NE
Turpentine	NE	NE	NE
Kerosene	NE	NE	NE
Diesel Fuel	NE	NE	NE
Gasoline	F	NE	NE
ASTM #3 Oil	NE	NE	NE
SAE 20 Oil	NE	NE	NE
10% Sodium Chloride	NE	NE	NE
Alconox®	NE	NE	NE
Formula 409® Cleaner	NE	NE	NE
Water	NE	NE	NE

NE = No Effect

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.

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:

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.)

Formula 409® is a registered trademark of the Chlorox 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.

WARRANTY

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 merchantability or fitness for a particular purpose, and of any other obligations or liability on Brady's part. Under no circumstances will Brady be liable for any loss, damage, expense, or consequential damages of any kind arising in connection with the use, or inability to use, Brady's products.

Copyright 2016 Brady Worldwide, Inc. | All Rights Reserved
Material may not be reproduced or distributed in any form without written permission.

Brady North America | 6555 W. Good Hope Rd | Milwaukee, WI 53223 | USA | Tel: 414-358-6600 | Fax: 800-292-2289