

BRADY B-542 BRADYGLO™ HIGH INTENSITY ALUMINUM SIGN

TDS No. B-542
Effective Date: 04/10/2024

Description:

Brady B-542 BradyGlo™ High Intensity material is a glow-in-the-dark (photoluminescent) aluminum sign designed for either adhesive or mechanical mounting.

Details:



Use:

Brady B-542 BradyGlo™ High Intensity Aluminum Sign is designed to provide luminance for egress marking in low light areas in and along stairwells of buildings. Uses such as: door signs (intermediate, final, not an exit, etc.), wall mounted signs, directional signage (entering an exit, transfer levels, unclear egress direction), and other signs. Please see the BradyGlo™ High Intensity Product Installation Instruction. See www.BradyID.com/BradyGlo for more information.

Relevant Standards:

Complies with all indoor use requirements specified in RS 6-1 and 6-1A of New York Local Law 26 including photoluminescence, washability, flammability, toxic gas generation, and radioactivity.

Inherent Properties:

Brady B-542 is a photoluminescent, non-toxic, non-radioactive, explosion safe (does not generate energy to induce explosions) material allowing for safe and effective egress marking.

Illuminescent Characteristics:

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

Luminance (after illumination):

10 minutes: 49 mcd/m²

60 minutes: 11 mcd/m²

90 minutes: 7 mcd/m²

Substrate Type:

Phosphorescent Aluminum

Standard Legend Colors:

Black, green, and red

Thickness (PSTC-133):

Total: 0.045 in. (1.143 mm)

Abrasion Resistance (ASTM D4060-14):

CS-10 wheels, 250g wts.

Legend withstands up to 500 cycles

CS-17 wheels, 1000g wts.

Substrate withstands up to 4000 cycles

Gloss (ASTM D-523):

60° - 116 gloss units

Minimum Application Temperature:

50°F (10°C)

Service Temperature:

-40°F to 158°F (-40°C to 70°C)

Outdoor Applications:

Not recommended for outdoor application.

Chemical Resistance:

REAGENT	RUB TEST
30% Sulfuric Acid	No Visible Effect
30% Hydrochloric Acid	No Visible Effect
50% Sodium Hydroxide	No Visible Effect
10% Ammonia	No Visible Effect
5% Sodium Hypochlorite	No Visible Effect
Methyl Ethyl Ketone	Complete Failure
Acetone	Complete Failure
Isopropanol (IPA)	No Visible Effect
Mineral Spirits	No Visible Effect
Gasoline	No Visible Effect
SAE 20 Oil	No Visible Effect
5% Alconox®	No Visible Effect

Shelf Life

6 years when stored at 70°F (21°C) and 40% to 50% R.H.

Trademarks:

Alconox® is a registered trademark of Alconox Co.

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

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

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

BradyGlo™ is a trademark of Brady Worldwide, Inc.

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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