

BRADY B-452 BRADYGLO™ ALUMINUM SIGN

TDS No. B-452
Effective Date: 04/10/2024

Description:

Brady B-452 BradyGlo™ material is a glow-in-the-dark (photoluminescent) aluminum sign.

Details:



Use:

Brady B-452 BradyGlo™ material is used for exit and directional signs, identification of fire alarms and extinguishers, and directional systems for escape or evacuation routes.

Relevant Standards:

Meets or exceeds the following standards: ASTM E-2072-00 / ASTM E-2073-00, ASTM E-162, ASTM E-648, ASTM E-662, IMO Resolution A.752(18), ISO/CD 15370, Marine Safety Committee MSC.27(61), DIN 67 510 (Parts 1 – 4), and PSPA 002 Part 2 1993 Class A Rev 2:09/99.
Meets OSHA 1901.37

Inherent Properties:

Brady B-452 is a non-toxic, non-radioactive, explosion safe (does not generate energy to induce explosions) material allowing for sanitary disposal.

Illuminescent Characteristics:

Charge time of 5 minutes @ 1000 Lux. Consistent glow life and unlimited rechargability throughout service life.

Substrate Type:

Phosphorescent polyester film on aluminum

Standard Legend Colors:

Black, green, red, and blue

Thickness (PSTC-133):

Total: 0.050 in. (1.27 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

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

Unlimited 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.
 IMO: International Maritime Association
 DIN: Deutsches Institut für Normung
 PSPA: Photoluminescent Safety Products Association

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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