

PHOTOLUMINESCENT PLASTIC SIGN FOR IBC

TDS No. B-985
 Effective Date: 11/20/2009

Description:

Brady B-985 BradyGlo™ material is a glow-in-the-dark (photoluminescent) safety guidance sign

Details:

Use:

Brady B-985 BradyGlo™ material is used for exit and directional signs, identification of fire alarms and extinguishers, stairwell identification sign and directional systems for escape or evacuations routes. In accordance with ASTM 2030-99: Recommended Uses of Photoluminescent Safety Markings.

Relevant Standards:

Meets or exceeds the following standards:

- IBC 2009**
- IFC 2009**
- NFPA 101-2009**
- NFPA 170-2009**
- ASTM E2073**

Inherent Properties:

Brady B-985 is a non-toxic, non-radioactive, explosion safe (does not generate energy to induce explosions), material allowing for sanitary disposal.

Illuminescent Characteristics:

1 foot candles (11lux) of fluorescent illumination for 60 minutes, and the minimum luminance shall be 30 milicandelas per square meter at 10 minutes and 5 milicandelas per square meter after 90 minutes. Exit enclosures where photoluminescent exit path markings are installed shall be provided with the minimum means of egress illumination, for at least 60 minutes prior to periods when the building is occupied.

Substrate Type:

Photoluminescent polyester film on polystyrene

Standard Legend Colors:

Black, green and red

Thickness (PSTC-33):

0.069 in. (1.75 mm)

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

CS-10 Wheels, 250g wts.
 Legend withstands up to 250 cycles
 CS-17 Wheels, 1000g wts.
 Substrate withstands up to 4000 cycles

Gloss (ASTM D523):

60° - 116 gloss units

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 | NE |
| 5% Acetic Acid | NE | NE | NE |
| 50% Sodium Hydroxide | F | NE | NE |
| 10% Sodium Hydroxide | F | 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 | NE | NE |
| Isopropanol | F | NE | NE |
| Heptane | F | NE | NE |
| Mineral Spirits | F | NE | NE |
| Turpentine | F | F | NE |
| Diesel Fuel | F | NE | NE |
| Kerosene | F | NE | NE |
| Gasoline | F | F | NE |
| ASTM #3 Oil | NE | NE | NE |
| SAE 20 Oil | NE | NE | NE |
| Alconox® | NE | NE | NE |
| DI 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.

Service Temperature:

-40°F to 175°F (-40°C to 80°C)

Expected Service Life of Printed Legend

Average of 5 years

Outdoor Applications:

Not recommended for outdoor application.

Shelf Life:

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

Trademarks:

ANSI: American National Standards Institute (U.S.A.)

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

Alconox® is a registered trademark of Alconox Co.

BradyGlo™ is a trademark of Brady Worldwide, Inc.

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

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

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

UL: Underwriters Laboratories Inc. (U.S.A.)

Note: All values shown are averages and should not be used for specification purposes.

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