

BradyGlo(TM) Door Handle Marker

TDS No. B-645
Effective Date: 08/27/2010

Description:

Brady Glo™ B-645 Door Handle Marker

Details:

Brady B-645 BradyGlo™ material is a glow in the dark (photoluminescent) safety guidance sign for use on Door Handle.

Use:

Brady B-645 BradyGlo™ material is used for Door Handle, identification of fire exits, stairwell 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-645 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:

Phosphorescent Polyester Film

Standard Legend Colors:

Black, green and red

Adhesive Type:

Pressure Sensitive Rubber Acrylic

Standard Legend Colors:

Black, green, and red

Thickness (PSTC-133):

0.013 in. (0.33 mm)

Adhesive Properties:

Adhesion to Stainless Steel (PSTC-101)
 15 Minute Dwell (Avg.) - 130 oz/in
 Ultimate Dwell (72hrs) (Avg.) - 134 oz/in

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

CS-10 Wheels, 250g wts.
 Legend withstands up to 100 cycles
 CS-17 Wheels, 1000g wts.
 Substrate withstands up to 9000 cycles

Gloss (ASTM D523):

60° - 116 gloss units

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.

Chemical Resistance:

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.

| REAGENT | 7 DAY IMMERSION | DIP TEST |
|-----------------------|-----------------|----------|
| 30% Sulfuric Acid | NE | NE |
| 10% Sulfuric Acid | NE | NE |
| 30% HCl | F | NE |
| 10% HCl | NE | NE |
| 50% NaOH | NE | NE |
| 10% NaOH | NE | NE |
| MEK | F | F |
| Acetone | F | F |
| 1,1,1 Trichloroethane | F | F |
| Methanol | F | F |
| IPA (Isopropanol) | F | F |
| ASTM #3 Oil | NE | NE |
| SAE 20 Oil | NE | NE |
| Alconox® | NE | NE |
| Toluene | F | NE |
| Mineral Spirits | F | NE |
| Glacial Acetic Acid | F | F |
| 5% Acetic Acid | NE | NE |
| Diesel Fuel | NE | NE |
| Heptane | F | NE |
| 10% NaCl | NE | NE |
| Turpentine | F | NE |
| Kerosene | F | NE |
| DI Water | NE | NE |
| Gasoline | F | NE |

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.)

Signmark® is a registered trademark of Brady Worldwide, Inc.

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

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