

**PHOTOLUMINESCENT ALUMINUM SIGN FOR IBC**

TDS No. B-986  
Effective Date: 11/20/2009

**Description:**

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

**Details:**

**Use:**

Brady B-986 BradyGlo™ metal sign 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-986 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 aluminum

**Standard Legend Colors:**

Black, green and red

**Thickness (PSTC-33):**

0.049 in. (1.24 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.)

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.

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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