

**HIGH INTENSITY PRISMATIC REFLECTIVE SHEETING**

TDS No. B-309

Effective Date: 06/29/2011

**Description:**

Brady B-309 is High Intensity Prismatic Reflective Sheeting with black characters bordered with photoluminescent (glow-in-the dark) material and backed with a pressure sensitive adhesive.

**Details:****Use:**

Brady B-309 is used for general labeling; designed for permanent applications indoors as well as severe outdoor environments. Special acrylic adhesive adheres strongly, making marker removal difficult.

**Special Properties**

The ultra reflective technology allows for maximum visibility from a greater distance, wider angle and lower light source than standard reflective vinyl, while the photoluminescent boarder gives the character distinct definition in blackout conditions.

**Illumination Characteristics**

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

Luminance (after illumination):

10 minutes >29 mcd/m<sup>2</sup>

60 minutes >7 mcd/m<sup>2</sup>

90 minutes >5 mcd/m<sup>2</sup>

120 minutes >3 mcd/m<sup>2</sup>

**Adhesive Type:**

Pressure sensitive acrylic

**Substrate Type:**

Reflective Sheeting

**Standard Material Colors:**

Silver

**Standard Legend Colors:**

Black with Photoluminescent border

**Relevant Standards:**

Exceeds application requirements of Type III & IV per ASTM - D 4956

**Thickness (PSTC-33)**

0.0155 in. (0.3937 mm)

**Minimum Application Temperature**

65°F or 18°C

**Adhesive Properties:**

Adhesion to Steel (PSTC-1)

15 Minute Dwell (Avg.) -- destroys

Ultimate Dwell (72 Hrs.) (Avg.) -- destroys

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

CS17 wheels, 1000g. weight

Legend withstands 334 cycles

**Gloss (ASTM D523):**

60° gloss on reflective area - 92 Gardner gloss units

**Service Temperature:**

-40°F to 212°F (-40°C to 100°C)

**Average Outdoor Durability:**

Up to 12 years outdoors (average expected outdoor life of product will depend on user definition of failure and climatic conditions).

**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        | F        |
| 5% Acetic Acid         | NE              | NE       | NE       |
| 50% Sodium Hydroxide   | NE              | NE       | NE       |
| 10% Sodium Hydroxide   | NE              | 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               | F        | F        |
| Isopropyl Alcohol      | NE              | F        | F        |
| Heptane                | NE              | NE       | NE       |
| Mineral Spirits        | NE              | NE       | NE       |
| Turpentine             | NE              | NE       | NE       |
| Kerosene               | NE              | NE       | NE       |
| Diesel Fuel            | NE              | NE       | NE       |
| Gasoline               | F               | NE       | NE       |
| ASTM #3 Oil            | NE              | NE       | NE       |
| SAE 20 Oil             | NE              | NE       | NE       |
| 10% Sodium Chloride    | NE              | NE       | NE       |
| Alconox®               | NE              | NE       | NE       |
| Formula 409® Cleaner   | NE              | NE       | NE       |
| 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.

Product testing, customer feedback, and history of similar products, support a customer performance expectation of at least **two years from the date of receipt** for this product as long as this product is stored in its original packaging in an environment *below 80°F (27°C) and 60% RH*. We are confident that our product will perform well beyond this time frame. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use in their actual applications.

**Trademarks:**

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

Alconox® is a registered trademark of Alconox Co.

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

Formula 409® is a registered trademark of the Chlorox Company

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

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