

## Brady B-324 BRADYGLO (TM) SELF-STICKING POLYESTER

TDS No. B-324  
Effective Date: 11/05/2015

### **Description:**

Brady B-324 BradyGlo™ material is a glow-in-the-dark (photoluminescent) pressure sensitive polyester.

### **Details:**

#### **Use:**

Brady B-324 is used for exit and directional signs, identification of fire alarms and extinguishers, low location egress pathway markings, 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. 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 Standard 002 Part 2.

Meets OSHA 1910.37, Lloyd's Register SAS F050294.p.

#### **Inherent Properties:**

Brady B-324 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 will charge the sign for +10 hours of glow time. Consistent glow life and unlimited rechargability throughout service life.

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

Luminance (after illumination):

10 minutes >25 mcd/m<sup>2</sup>

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

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

#### **Adhesive Type:**

Pressure Sensitive Acrylic

#### **Substrate Type:**

Phosphorescent Polyester Film

#### **Standard Legend Colors:**

Black, green, red, and blue

#### **Thickness (PSTC-133):**

0.008 in. (0.20 mm)

#### **Adhesive Properties:**

Adhesion to Stainless Steel (PSTC-101)

15 Minute Dwell (Avg.) - 110 oz/in

Ultimate Dwell (72hrs) (Avg.) - 110 oz/in

#### **Abrasion Resistance (ASTM D4060-14 Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser):**

CS-10 Wheels, 250g wts.

Legend withstands up to 100 cycles

CS-17 Wheels, 1000g wts.

Substrate withstands up to 9000 cycles

#### **Gloss (ASTM D-523):**

60° - 121 Gloss Units

#### **Minimum Application Temperature:**

50°F (10°C)

**Service Temperature:**

-40°F to 176°F (-40°C to 80°C)

**Expected Service Life of Adhesive and Printed Legend**

Average of 5 years

**Outdoor Applications:**

Not recommended for outdoor application.

**Chemical Resistance:**

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

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:**

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.

DIN: Deutsches Institut für Normung  
Fed. Spec.: United States Federal Specification (U.S.A.)  
IMO: International Maritime Association  
OSHA: Occupational Safety & Health Administration  
PSPA: Photoluminescent Safety Products Association  
PSTC: Pressure Sensitive Tape Council (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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