

BRADY B-523 BRADYGLO (TM) HIGH INTENSITY SELF STICKING POLYESTER

TDS No. B-523
Effective Date: 11/10/2010

Description:

Brady B-523 BradyGlo™ High Intensity laminate is a glow-in-the-dark (photoluminescent) polyester film coated with an aggressive pressure sensitive adhesive.

Details:

Use:

Brady B-523 BradyGlo™ High Intensity laminate is designed to provide high adhesion and luminance for egress marking in low light areas in and along stairwells of public buildings as required by the City of New York.

Relevant Standards:

Complies with all indoor use requirements specified in RS 6-1 and 6-1A of New York Local Law 26 including photoluminescence, washability, flammability, toxic gas generation, and radioactivity.

Approved Model Numbers Accepted For Use, City of New York, Department of Buildings: MEA No. 218-05-M Vol. 3 BR: 41-9-6 UV

Inherent Properties:

Brady B-523 is a non-toxic, non-radioactive, explosion safe (does not generate energy to induce explosions) material allowing for safe and effective egress marking.

Illuminescent Characteristics:

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

Luminance (after illumination):

10 minutes >37 mcd/m²

60 minutes >8 mcd/m²

90 minutes >5 mcd/m²

Adhesive Type:

Pressure Sensitive Synthetic Rubber

Substrate Type:

Phosphorescent Polyester Film

Standard Legend Colors:

Black, green, red, and blue

Thickness (PSTC-33):

.0096 in. (0.24 mm)

Adhesive Properties:

Adhesion to Stainless Steel (PSTC-101)

15 Minute Dwell (Avg.) - 200 oz/in

Ultimate Dwell (72hrs) (Avg.) - 200 oz/in

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

CS-10 Wheels, 250g wts.

Legend withstands up to 250 cycles

Gloss (60° Gardner):

121

Minimum Application Temperature:

50°F (10°C)

Service Temperature:

-40°F to 176°F (-40°C to 80°C)

Chemical Resistance:

| Chemical | 7 Day Immersion | Dip Test | Rub Test |
|------------------------|-----------------|----------|----------|
| 30% Sulfuric Acid | F | NE | NE |
| 10% Sulfuric Acid | F | NE | NE |
| 30% Hydrochloric Acid | NE | NE | NE |
| 10% Hydrochloric Acid | NE | NE | F |
| Glacial Acetic Acid | F | NE | F |
| 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 |
| MEK | F | NE | F |
| Acetone | F | NE | F |
| Toluene | F | NE | F |
| Methanol | F | NE | F |
| Isopropyl Alcohol | F | NE | F |
| Heptane | F | NE | NE |
| Mineral Spirits | F | NE | NE |
| Turpentine | F | NE | NE |
| Diesel Fuel | F | NE | NE |
| Kerosene | F | NE | NE |
| Gasoline | F | NE | F |
| ASTM #3 Oil | NE | NE | NE |
| SAE 20 Oil | NE | NE | NE |
| Alconox® | F | NE | NE |
| Water | NE | NE | NE |
| Formula 409 Cleaner® | NE | NE | NE |

NE = No Effect

F = Failed (affected sample)

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.

BradyGlo™ is a trademark of Brady Worldwide, Inc.

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

Formula 409 Cleaner® is a registered trademark of The Clorox Company

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.

Product compliance information is based upon information provided by suppliers of the raw materials used by Brady to manufacture this product or based on results of testing using recognized analytical methods performed by a third party, independent laboratory. As such, Brady makes no independent representations or warranties, express or implied, and assumes no liability in connection with the use of this information.

WARRANTY

Brady products are sold with the understanding that the buyers will test them in actual use and determine for themselves their adaptability to their intended uses. Brady warrants to the buyers that its products are free from defects in material and

workmanship, but limits its obligation under this warranty to replacement of the product shown to Brady's satisfaction to have been defective at the time Brady sold it. This warranty does not extend to any persons obtaining the product from the buyers. This warranty is in lieu of any other warranty, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations or liability on Brady's part. Under no circumstances will Brady be liable for any loss, damage, expense, or consequential damages of any kind arising in connection with the use, or inability to use, Brady's products.

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