Technical Data Sheet

BRADY B-984 PHOTOLUMINESCENT PRESSURE SENSITIVE SIGN FOR IBC

TDS No. B-984
Effective Date: 11/19/2010

Description:
Brady B-984 BradyGlo™ High Intensity Tape material that is a glow-in-the-dark (photoluminescent) pressure sensitive polyester.

Details:
BUse:
Brady B-984 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:
IBC 2009
IFC 2009
NFPA 101-2009
NFPA 170-2009
ASTM E2073

Inherent Properties:
Brady B-984 is a non-toxic, non-radioactive, explosion safe (does not generate energy to induce explosions) material allowing for sanitary disposal.

IlluminescentCharacteristics:
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.

Adhesive Type:
Pressure Sensitive Synthetic Rubber

Substrate Type:
Phosphorescent Polyester Film

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 D-523):
60° - 116 Gardner 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
1,1,1 Trichloroethane	F	F	F
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.
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.)

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,

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