

AISLE MARKING TAPE TO MEET IBC

TDS No. B-981
Effective Date: 11/19/2010

Description:

Brady B-981 BradyGlo™ High Intensity laminate is a glow-in-the-dark (photoluminescent) polyester film coated with an aggressive pressure sensitive adhesive. B-981 is designed for meeting International Building Code Specifications.

Details:

Use:

Brady B-981 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 where International Building Code requirements are needed.

Relevant Standards:

IBC 2009
IFC 2009
NFPA 101-2009
NFPA 170-2009
ASTM E2073

Inherent Properties:

Brady B-981 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:

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

Thickness (PSTC-33):

0.013 in. (0.33 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-17 Wheels, 1000g wts.
Substrate withstands up to 9000 cycles

Gloss (60° Gardner):

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

Chemical Resistance:

Chemical	7 Day Immersion	Dip Test	

30% Sulfuric Acid	F	NE	
10% Sulfuric Acid	F	NE	
30% Hydrochloric Acid	NE	NE	
10% Hydrochloric Acid	NE	NE	
Glacial Acetic Acid	F	NE	
5% Acetic Acid	NE	NE	
50% Sodium Hydroxide	F	NE	
10% Sodium Hydroxide	F	NE	
10% Ammonia	NE	NE	
5% Sodium Hypochlorite	NE	NE	
MEK	F	F	
Acetone	F	F	
Toluene	F	F	
Methanol	F	F	
Isopropyl Alcohol	F	NE	
Heptane	F	NE	
Mineral Spirits	F	NE	
Turpentine	F	NE	
Diesel Fuel	F	NE	
Kerosene	F	NE	
Gasoline	F	NE	
ASTM #3 Oil	NE	NE	
SAE 20 Oil	NE	NE	
Alconox®	F	NE	
DI Water	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:

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.)

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.

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.

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