

BRADY Xtra-Glo B-7583 PHOTOLUMINESCENT CLASS C RIGID PP SIGN WITH ADHESIVE

TDS No. B-7583

Effective Date: 06/09/2021

Description:

Rigid Polypropylene laminated with a printed flexible photoluminescent polyester tape Class C (Xtra-Glo B-7582) and backed with a permanent acrylic adhesive.

Substrate type: Rigid photoluminescent polypropylene sign.

Standard legend colors: Black, blue, green and red

Use:

B-7583 is used for safety applications such as safety signage in building, marine, rail and military applications.

Relevant standards:

Luminous compliance according to DIN 67510 Class C, ASTM 2072, ISO 15370, EU marine equipment directive, IMO RES A. 752 (18), PSPA Class C, ISO 17398 Class C..

Luminescent properties:

Charge time of 5 minutes @ 1000 Lux will charge the sign for 24 hours of glow time (min. 0.32 mcd/m²)
 Consistent glow life and unlimited rechargeability throughout service life.

Test results according to DIN 67510 Part 1 standard / ASTM 2072: 1000 Lux Xenon Lamp for 5 minutes at 22°C

Luminance (after illumination):

2 minutes : 794 mcd/m²

10 minutes : 180 mcd/m²

30 minutes : 49.8mcd/m²

60 minutes : 23 mcd/m²

Details:

PHYSICAL PROPERTIES	TEST METHOD	AVERAGE RESULTS
Thickness	PSTC-133 Total thickness	1.79 mm
Adhesion (of the adhesive used for B-7583) to: - Stainless Steel - Polypropylene	ASTM D 1000 15 minutes dwell time 24 hours dwell time 15 minutes dwell time 24 hours dwell time	159 N/100 mm (145 oz/in) 158 N/100 mm (145 oz/in) 159 N/100 mm (145 oz/in) 162 N/100 mm (148 oz/in)
Abrasion Resistance	CS-10 wheels	Polyester laminate withstands up to 1000 cycles
Service temperature		-40°C to 65°C (-40°F to 150°F)
Humidity resistance	30 days at 37°C/95%RH	No visible effect

Outdoor applications:

Not recommended for outdoor application.

CHEMICAL PROPERTIES:

CHEMICAL REAGENT	Rub test
Methyl ethyl ketone	No visible effect
Toluene	No visible effect
Isopropyl alcohol	No visible effect
Ethanol (96%)	No visible effect
n-Hexane	No visible effect
Acetone	No visible effect
Gasoline	No visible effect
Diesel	No visible effect
Deionized water	No visible effect
5% NaOH	No visible effect

10% Sulphuric acid solution	No visible effect
10% NaCl solution	No visible effect
5% Soap Extran MA 02 neutral	No visible effect

Rub test: Rubbed sample for 1 minute with swab soaked in reagent.

Shelf life is 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. It remains the responsibility of the user to assess the risk of using this product. We encourage customers to develop testing protocols that will qualify a product's fitness for use in their actual application.

Trademarks:

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

DIN: Deutsche Industry Norm

IMO: International Maritime Organization

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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