

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

TDS No. B-7583
Effective Date: 07/06/2016

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

Illuminescent 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 rechargability 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:	ASTM D 1000	
- Stainless Steel	15 minutes dwell time 24 hours dwell time	159 N/100 mm (145 oz/in) 158 N/100 mm (145 oz/in)
- Polypropylene	15 minutes dwell time 24 hours dwell time	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

De-ionized 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: 2 years if stored below 27°C (80°F) and 60% RH.

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.)

S. I.: International System of Units

Note: All values shown are averages and should not be used for specification purposes.

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