

BRADY Xtra-Glo B-7582 PHOTOLUMINESCENT CLASS C SELF-ADHESIVE POLYESTER

TDS No. B-7582
 Effective Date: 06/13/2016

Description:

Xtra-Glo B-7582 photoluminescent class C is made of a surface printed polyester film, protected with a clear polyester. Xtra-Glo B-7582 is also offered on a rigid polypropylene (B-7583 and B-7584), PVC (B-7588) and aluminum plates (B-7590).

Substrate type: Flexible photoluminescent polyester film

Adhesive type: Pressure sensitive acrylic adhesive

Standard legend colors: Black, blue, green and red

Use:

Xtra-Glo B-7582 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 : 49.8 mcd/m²
- 60 minutes : 23 mcd/m²

Details:

PHYSICAL PROPERTIES	TEST METHOD	AVERAGE RESULTS
Thickness	PSTC-133 - Overlaminated polyester - Photoluminescent substrate - Adhesive	0.050 mm (0.002 inch) 0.178 mm (0.007 inch) 0.051 mm (0.002 inch)
Adhesion to:	ASTM D 1000	
- Stainless Steel	15 minutes dwell time 24 hours dwell time	105 N/100mm (96 oz/in) 127 N/100mm (116 oz/in)
- Powder Coated PET	15 minutes dwell time 24 hours dwell time	100 N/100mm (92 oz/in) 103 N/100mm (94 oz/in)
- Polyethylene	15 minutes dwell time 24 hours dwell time	59 N/100mm (54 oz/in) 68 N/100mm (63 oz/in)
- Polypropylene	15 minutes dwell time 24 hours dwell time	92 N/100mm (85 oz/in) 99 N/100mm (91 oz/in)
- PVC	15 minutes dwell time 24 hours dwell time	93 N/100mm (86 oz/in) 94 N/100mm (86 oz/in)
- Aluminum	15 minutes dwell time 24 hours dwell time	99 N/100mm (91 oz/in) 118 N/100mm (108 oz/in)
Shear adhesive	PSTC-107 Stainless steel (1/2" x 1/2" x 1000g)	10 hours
Tack	PSTC-6 Rolling ball tack	< 5inch

Abrasion Resistance	CS-10 wheels	Polyester laminate withstands up to 1000cycles
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	7 days immersion	DIP test
Methyl ethyl ketone	Destroyed	Sign is coming loose at the edges Adhesive ooze
Toluene	Destroyed	Sign is coming loose at the edges Adhesive ooze
Isopropyl alcohol	Delamination of the overlamine at the edges	No visible effect
Ethanol (96%)	Sign is coming loose at the edges	Sign is coming loose at the edges
n-Hexane	De-lamination of the overlamine	No visible effect
Acetone	Destroyed	Sign is coming loose at the edges Adhesive ooze
Gasoline	Destroyed	No visible effect
Gasfuel	Severe delamination of the overlamine	No visible effect
De-ionized water	No visible effect	No visible effect
5% NaOH	No visible effect	No visible effect
10% Sulphuric acid solution	No visible effect	No visible effect
10% NaCl solution	No visible effect	No visible effect

7 days immersion: Xtra-Glo B-7582 sign is applied on aluminum. After a dwell time of 24 hours, the sign is immersed in reagent for 7 days.

Dip Test: Xtra-Glo B-7582 sign is applied on aluminum. After a dwell time of 24 hours, the sign is five times immersed during 10 minute dips in reagent with 30 minute recovery time.

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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