

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

TDS No. B-7582

Effective Date: 23/07/2024

**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 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/m<sup>2</sup>).

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/m<sup>2</sup>

10 minutes : 180 mcd/m<sup>2</sup>

30 minutes : 49.8 mcd/m<sup>2</sup>

60 minutes : 23 mcd/m<sup>2</sup>

**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  - Powder Coated PET 15 minutes dwell time 24 hours dwell time  - Polyethylene 15 minutes dwell time 24 hours dwell time  - Polypropylene 15 minutes dwell time 24 hours dwell time  - PVC 15 minutes dwell time 24 hours dwell time  - Aluminum 15 minutes dwell time 24 hours dwell time	105 N/100mm (96 oz/in) 127 N/100mm (116 oz/in)  100 N/100mm (92 oz/in) 103 N/100mm (94 oz/in)  59 N/100mm (54 oz/in) 68 N/100mm (63 oz/in)  92 N/100mm (85 oz/in) 99 N/100mm (91 oz/in)  93 N/100mm (86 oz/in) 94 N/100mm (86 oz/in)  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
UV resistance	30 days in UV light chamber, Q-SUN	No visible effect
Weatherability	30 days in QUV (ASTM G154, cycle 1)	No visible effect
Salt Fog Resistance	ASTM B117 30 days in 5% salt fog solution chamber	No visible effect

#### **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 overlaminate 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 overlaminate	No visible effect
Acetone	Destroyed	Sign is coming loose at the edges Adhesive ooze
Gasoline	Destroyed	No visible effect
Gasfuel	Severe delamination of the overlaminate	No visible effect
Deionized 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 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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