

BRADY Nite-Glo B-7568 PHOTOLUMINESCENT CLASS B SELF-ADHESIVE POLYESTER

TDS No. B-7568
 Effective Date: 23/07/2024

Description:

Nite-Glo B-7568 photoluminescent class B is made of a surface printed polyester film, protected with a clear polyester. B-7568 is also offered on a rigid polypropylene (B-7570) and PVC (B-7571).

Substrate type: Flexible photoluminescent polyester film

Adhesive type: Pressure sensitive acrylic adhesive

Standard legend colors: Black, blue, green and red

Use:

Nite-Glo B-7568 is used for safety applications such as safety signage in building, marine, rail and military applications.

Relevant standards:

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

Illuminescent properties:

Charge time of 5 minutes @ 1000 Lux will charge the sign for 12 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 : 641.0 mcd/m²
- 10 minutes : 119.0 mcd/m²
- 30 minutes : 35.4 mcd/m²
- 60 minutes : 12.4 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	70 N/100mm (64 oz/in) 86 N/100mm (79 oz/in)
-Powder Coated PET	15 minutes dwell time 24 hours dwell time	67 N/100mm (62 oz/in) 78 N/100mm (71 oz/in)
-Polyethylene	15 minutes dwell time 24 hours dwell time	47 N/100mm (43 oz/in) 54N/100mm (50 oz/in)
- Polypropylene	15 minutes dwell time 24 hours dwell time	68 N/100mm (62 oz/in) 69 N/100mm (63 oz/in)
- PVC	15 minutes dwell time 24 hours dwell time	64 N/100mm (59 oz/in) 71 N/100mm (65 oz/in)
- Aluminum	15 minutes dwell time 24 hours dwell time	66 N/100mm (60 oz/in) 85 N/100mm (78 oz/in)
Shear adhesive	PSTC-107 Stainless steel (½" x ½" x 1000g)	10 hours
Tack	PSTC-6 Rolling ball tack	< 5 inch
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
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 overlamine at the edges	No visible effect
Ethanol (96%)	Sign is coming loose at the edges	No visible effect
n-Hexane	No visible effect	No visible effect
Acetone	Destroyed	Sign is coming loose at the edges Adhesive ooze
Gasoline	No visible effect	No visible effect
Gasfuel	Destroyed	Delamination of the overlamine Adhesive ooze
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: Nite-Glo B-7568 is applied on aluminium. After a dwell time of 24 hours the sign is immersed in reagent for 7 days.

Dip Test: Nite-Glo B-7568 is applied on aluminium. After a dwell time of 24 hours the sign is immersed five times 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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