Technical Data Sheet

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

TDS No. B-7568
Effective Date: 06/13/2016

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 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 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 : 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	0.050 mm (0.002 inch)
	- Photoluminescent substrate	0.178 mm (0.007 inch)
	- Adhesive	0.051 mm (0.002 inch)
Adhesion to:	ASTM D 1000	
- Stainless Steel	15 minutes dwell time	70 N/100mm (64 oz/in)
	24 hours dwell time	86 N/100mm (79 oz/in)
- Powder Coated PET	15 minutes dwell time	67 N/100mm (62 oz/in)
	24 hours dwell time	78 N/100mm (71 oz/in)
- Polyethylene	15 minutes dwell time	47 N/100mm (43 oz/in)
	24 hours dwell time	54N/100mm (50 oz/in)
- Polypropylene	15 minutes dwell time	68 N/100mm (62 oz/in)
	24 hours dwell time	69 N/100mm (63 oz/in)
- PVC	15 minutes dwell time	64 N/100mm (59 oz/in)
	24 hours dwell time	71 N/100mm (65 oz/in)
- Aluminum	15 minutes dwell time	66 N/100mm (60 oz/in)
	24 hours dwell time	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

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 overlaminate 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 overlaminate 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: Nito-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: Nito-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: 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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