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**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<br>Adhesive ooze |
| Toluene | Destroyed | Sign is coming loose at the edges<br>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<br>Adhesive ooze |
| Gasoline | No visible effect | No visible effect |
| Gasfuel | Destroyed | Delamination of the overlaminate<br>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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