

BRADY Nite-Glo B-7570 PHOTOLUMINESCENT CLASS B RIGID PP SIGN

TDS No. B-7570
Effective Date: 07/06/2016

Description:

Rigid Polypropylene laminated with a printed flexible photoluminescent polyester tape Class B (Nite-Glo B-7568).

Substrate type: Rigid photoluminescent polypropylene sign.

Standard legend colors: Black, blue, green and red

Use:

B-7570 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 Total thickness | 1.78 mm |
| 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 | Rub test |
|------------------------------|-------------------|
| Methyl ethyl ketone | No visible effect |
| Toluene | No visible effect |
| Isopropyl alcohol | No visible effect |
| Ethanol (96%) | No visible effect |
| n-Hexane | No visible effect |
| Acetone | No visible effect |
| Gasoline | No visible effect |
| Diesel | No visible effect |
| De-ionized water | No visible effect |
| 5% NaOH | No visible effect |
| 10% Sulphuric acid solution | No visible effect |
| 10% NaCl solution | No visible effect |
| 5% Soap Extran MA 02 neutral | No visible effect |

Rub test: Rubbed sample for 1 minute with swab soaked in reagent.

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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