

Avery Dennison® SF100-120-S Glow in the Dark

Permanent Kraft

Revision: 3 Dated: 08/24/17

Uses:

Avery Dennison® Glow-in-the-Dark Film is a specialty photoluminescent non-coated rigid polyester film that can be used for exit and directional signs, identification of fire alarms, fire extinguishers and evacuation routes. This product performs in accordance with ASTM 2030-06: Recommended Uses of Photoluminescent Safety Markings.



Face: 6 mil (152 microns) specialty polyester



Adhesive: Clear Permanent



Liner: 78# bleached Kraft



Durability: Up to 5 years
INDOOR USE ONLY

Application Surfaces: Flat

Features:

- High gloss finish
- Dimensionally stable liner for easy converting
- Excellent dimensional stability
- Non-toxic, non-radioactive
- Uses zero electricity

Conversion:

- Flat Bed Sign-Cut
- Drum Roller Sign-Cut
- Steel Rule Die-Cutting
- Screen Printing
- UV Inkjet

Common Applications:

- Safety Signs
- Emergency Exit Markings
- Evacuation Signs
- Illuminate Pathways
- Location Signs

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www.graphics.averydennison.com
Customer Service: 800-282-8379

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Physical Characteristics:

Property	Measurement	Typical Values
Caliper, face		6 mil (152 µm)
Caliper, adhesive		2 mil (50 µm)
Tensile at Yield		NA
Elongation		NA
Gloss	Hunter Gloss @ 60 degrees	121 GU
Adhesion:	15 min 72 hrs	6.9 lbs/in (1208 N/m) 6.9 lbs/in (1208 N/m)
Flammability	Self Extinguishing	
Shelf-Life		2 years from date of manufacture (when stored at the following temperatures and humidity conditions 68°-77° F (20° - 25° C) and 50±5% R. H.)
Durability	Vertical Exposure	Unprinted - 5 years, Indoor Only
Min. Application Temperature		50° F (10° C)
Service Temperature		-40° to 176°F (-40° to 80° C) (Reasonable range of temperatures which would be expected under normal environmental conditions).
Chemical resistance		Resistant to most mild acids, alkalis, and salt solutions including water. Resists Petroleum Vapors

Data represents average values where applicable, and is not intended for specification purposes.

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Chemical Resistance:

All chemical tests are conducted with test panels to which a specimen has been applied.

Reagent	7 Day Immersion	Dip Test	Rub Test
30% Sulfuric Acid	NE	NE	NE
10% Sulfuric Acid	NE	NE	NE
30% HCL	NE	NE	NE
10% HCL	NE	NE	NE
50% NaOH	F	NE	NE
10% NaOH	F	NE	NE
MEK	F	F	F
Acetone	F	F	F
5% Sodium Hypochlorite (bleach)	NE	NE	NE
10% Amonia	NE	NE	NE
Methanol	F	F	F
Isopropyl Alcohol	F	F	F
ASTM #3 Oil	NE	NE	NE
SAE 20 Oil	NE	NE	NE
Alconox®	NE	NE	NE
Toluene	F	NE	F
Mineral Spirits	NE	NE	NE
Glacial Acetic Acid	F	F	F
5% Acetic Acid	NE	NE	NE
Diesel Fuel	NE	NE	NE
Heptane	NE	NE	NE
10% NaCL	NE	NE	NE
Turpentine	NE	NE	NE
Kerosene	F	NE	NE
DI Water	NE	NE	NE
Gasoline	F	NE	F

NE = No Effect

F = Failed (affected sample)

7 Day Immersion: Immersed in reagent for 7 days. Dip Test: Five 10 minute dips in reagent with 30 minute recovery.

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

Illuminescent Characteristics: Charge time of 5 minutes @ 1000 Lux will charge the sign for +10

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hours of glow time. Consistent glow life and unlimited rechargeability throughout service life.

Illumination: 21.6 Lux (2 foot candles) for 2 hours with a 4100K cool white fluorescent lamp

Luminance time (after illumination):

10 minutes > 25 mcd/square meter

60 minutes > 5 mcd/square meter

90 minutes > 3 mcd/square meter

Abrasion Resistance:

CS-17 wheels, 1000g weights

Withstands up to 9000 cycles

ASTM D4060-14 Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser

Relevant Standards:

Meets or exceeds the following standards. ASTM E-2072-00 / ASTM E-2073-00, ASTM E-162, ASTM E-648, ASTM E-662, IMO Resolution A.752(18), ISO/CD 15370, Marine Safety Committee MSC.27(61), DIN 67 510 (Parts 1 - 4), and PSPA Standard 002 Part 2.

Meets OSHA 1910.37, Lloyd's Register SAS F050294.p

Revisions are italicized

Trademarks:

ANSI: American National Standards Institute (U.S.A.)

IMO: International Maritime Association

ASTM: American Society for Testing and Materials (U.S.A.)

OSHA: Occupational Safety & Health Administration

PSPA: Photoluminescent Safety Products Association

Fed. Spec.: United States Federal Specification (U.S.A.)

DIN: Deutsches Institut für Normung

PSTC: Pressure Sensitive Tape Council (U.S.A.)

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