

# 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

## Product Data Sheet

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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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## Warranty:

This Warranty applies to the Product listed in this Data Sheet. All statements, technical information (including physical and chemical characteristics) and recommendations about Avery Dennison products are based upon tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold subject to the Purchaser's assent and agreement that Purchaser is responsible for, and has independently determined, the suitability of such products for its purposes or its customer's purposes. Avery Dennison products are warranted to be free from defects in material and workmanship (i) for two years from the date of manufacture, or (ii) from the date of manufacture until the expiration of the period stated on the specific Product Data Sheet in effect at the time of delivery. Such time periods are subject in either case to the proper storing and application of said product, and the failure to properly store or apply the product, including without limitation the failure to follow any applicable Instructional Bulletin, negates any warranty. It is expressly agreed and understood that Avery Dennison's sole obligation and Purchaser's exclusive remedy under this warranty, under any other warranty, express or implied, or otherwise, shall be limited exclusively to: (a) repair or replacement of defective product without charge at Avery Dennison's plant or at the location of the product (at Avery Dennison's election), or (b) in the event repair or replacement are not commercially practical, a credit amount up to the price of the product taking into account the defect in the product in Avery Dennison's sole discretion.

THE WARRANTY EXPRESSLY SET FORTH ABOVE IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR USE AND/OR NON-INFRINGEMENT. SELLER SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER SUCH WARRANTIES. NO WAIVER, ALTERATION, ADDITION OR MODIFICATION OF THE FOREGOING CONDITIONS SHALL BE VALID UNLESS MADE IN WRITING AND MANUALLY SIGNED BY AN OFFICER OF AVERY DENNISON.

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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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