

# Avery Dennison® SF-100 Series Polyester Films

## Permanent

### Features

- High tensile strength films
- Excellent solvent and chemical resistance
- Durable permanent adhesive
- High transparency
- Excellent printability, conversion and application characteristics
- Excellent dimensional stability & heat resistance
- White, clear and metallised film options
- Attractive metallic appearance

### Conversion<sup>^</sup>

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Flat bed cutters        | <input type="checkbox"/> Cold overlaminating                  |
| <input checked="" type="checkbox"/> Friction fed cutters    | <input type="checkbox"/> Estat printing                       |
| <input checked="" type="checkbox"/> <b>Die cutting</b>      | <input type="checkbox"/> Water based inkjet                   |
| <input checked="" type="checkbox"/> <b>Thermal transfer</b> | <input type="checkbox"/> Solvent inkjet                       |
| <input checked="" type="checkbox"/> <b>Screen printing</b>  | <input type="checkbox"/> Mild solvent inkjet                  |
|   | <input checked="" type="checkbox"/> <b>UV curable inkjet*</b> |

<sup>^</sup>Always test with your combination of printer and inks prior to commercial use.  
\*With 90# Staflat liner

### Uses

Avery Dennison® SF-100 polyester films are suitable for a wide range of functional nameplates, decorative emblems and asset decals, where close registration and value for money are required. Recommended for flat smooth surfaces only.

### Description



**Film:** Surface treated polyester film.  
50 & 25 microns



**Adhesive:** Clear, permanent acrylic



**Backing:** 78# Bleached Kraft or 90# StaFlat™



**Outdoor life:** up to 2 years (unprinted) Vertical exposure.

**Application Surface:** Flat

### Common Applications

- Nameplates, tags
- Logos & decorative emblems
- Machinery plates
- Bicycle decorations
- Electrical equipment & asset labels
- Double sided window graphics
- Architectural Signage
- Directional Signage
- Emergency Vehicles
- Trains and Light Rail
- Buses
- Outdoor Advertising

## Physical characteristics

### General

Caliper, facefilm – SF100-103-S Clear		50micron
Caliper, facefilm – SF100-101-S White		50 micron
Caliper, facefilm - SF100-840-S Brushed Chrome		50 micron
Caliper, facefilm - SF100-846-S Bright Chrome		50 micron
Caliper, facefilm - SF 100-103 Clear		25 micron
Caliper, facefilm - SF100-242-S Brushed Gold		25 Micron
Caliper, facefilm - SF100-247-S Double Gold		25 Micron
Caliper, facefilm - SF100-848-S Chrome Mirror		25 Micron
Caliper, facefilm - SF100-248-S Gold Mirror		25 Micron
Dimensional stability		0.38mm max
Adhesion, initial	15 minutes	525 N/m
Adhesion, ultimate	24 hours	613 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22°C/50-55%RH	1 year
Durability **	Vertical exposure	up to 2 years (unprinted)

### Thermal

Application temperature	Minimum: + 16°C
Service temperature range	- 40°C to + 125°C

### Chemical

Resistant to most petroleum based oils, greases and aliphatic solvents

Resistant to most mild acids, alkalies, and salts

Resistant to humidity and water

### Important

Information on physical characteristics is based upon tests we believe to be reliable. The values listed herein are typical values and are not for use in specifications. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of any material for their specific use.

All technical data is subject to change without prior notice.

### Warranty

Avery Dennison® materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied. No salesman, representative or agent is authorised to give guarantee, warranty, or make any representation contrary to the foregoing.

All Avery Dennison® materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

### \*\*Durability

Durability is based on exposure conditions in the normal middle European and central North American regions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing north in the southern hemisphere or south in the northern hemisphere; in areas of long high temperature exposure such as northern Australia; in industrially polluted areas or high altitudes, exterior performance will be decreased. Please refer to Avery Dennison Instructional Bulletin 1.3 for definitions and reductions based on the 'Zone System'.

\*\*\*Information unavailable at time of printing.

### Test Methods

#### Dimensional stability:

Is measured on a 150 x 150 mm aluminium panel to which a specimen has been applied; 72 hours after application the panel is exposed for 48 hours to + 70°C, after which the shrinkage is measured.

#### Adhesion:

(FTM-1, FINAT) is measured by peeling a specimen at a 180° angle from a stainless steel or float glass panel, 24 hours after the specimen has been applied under standardised conditions. Initial adhesion is measured 20 minutes after application of the specimen.

#### Flammability:

A specimen applied to aluminium is subjected to the flame of a gas burner for 15 seconds. The film should stop burning within 15 seconds after removal from the flame.

#### Temperature range:

A specimen applied to stainless steel is exposed at high and low temperatures and brought back to room temperature. 1 hour after exposure the specimen is examined for any deterioration. Note: Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids, dyes, etc. may eventually cause deterioration.

#### Chemical Resistance:

All chemical tests are conducted with test panels to which a specimen has been applied. 72 hours after application the panels are immersed in the test fluid for the given test period. 1 hour after removing the panel from the fluid, the specimen is examined for any deterioration.

#### Corrosion Resistance:

A specimen applied to aluminium is exposed to saline mist (5% salt) at 35°C. After exposure, the film is removed and the panel is examined for traces of corrosion.



Graphics  
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Avery Dennison Graphics Solutions Asia Pacific

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