# Avery Dennison® SPF 1000

Permanent / StaFlat

Revision: 3 Dated: 09/23/14

## Uses:

Avery Dennison SPF 1000 Surface Protection Film premium quality, ultra-conformable, aliphatic polyurethane film with an adhesive system designed for the new generation of automotive clear-coats and other typical OEM surface finishes. SPF1000 polyurethane film is specifically designed to provide superior protection of paint surfaces from stone chips, road debris, bug stains, and weathering. This construction has been designed for use as a protective film in automotive, RV, marine, and architectural markets.

**Face:** 8 mil (203 microns) aliphatic polyurethane film

**Adhesive:** Permanent, acrylic pressure sensitive adhesive

**Liner:** 90# StaFlat

**Durability**: Up to 3 years (unprinted)

**Application Surfaces:** Flat, simple curves, and compound curves

## Features:

- Provides surface protection
- Gloss finish
- Conformable
- Dimensionally stable liner for easy converting

## Conversion:

- Plotter Cutting

## Common Applications:

- Automotive
- RV
- Marine

# Product Data Sheet



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## Physical Characteristics:

| Property | | Value |
|---|---|---|
| Caliper, face | | 8 mil (203 microns) |
| Caliper, adhesive | | 1.0mil (25 µm) |
| Dimensional stability | | |
| Tensile at Yield | | 5,000 to 10,000 PSI |
| Elongation | | Min 250% |
| Gloss | @ 60 | |
| Adhesion<br>Stainless Steel | 15 min.<br>24 hr | 3.0 lbs/in (525 N/m)<br>4.2 lbs/in (735 N/m) |
| Gel Coated Fiberglass | 15 min.<br>24 hr | 2.6 lbs/in (455 N/m)<br>3.3 lbs/in (578 N/m) |
| Auto OEM | 15 min.<br>24 hr | 2.6lbs/in (455 N/m)<br>3.1 lbs/in (543 N/m) |
| Flammability | | Self Extinguishing |
| Shelf-Life | | 2 years from date on label (up to 2 years unprocessed, OR process within one year and apply within 1 year of processing) |
| Durability | Vertical Exposure | Unprinted – 3 years |
| Min. Application Temperature | | 50°-90° F (10°-32° C) |
| Service Temperature | | -50° - 150°F (-46° - 66° C) (Reasonable range of temperatures which would be expected under normal environmental conditions). |
| Chemical resistance | | Resistant to most mild acids, alkalis, and salt solutions. |
| Gravelometer | (SAE J400) | No ruptures. Minimum rating of 3C |

**Important:**
Information on physical and chemical characteristics are based on tests believed to be reliable. The values are intended only as a source of information. This information is given without guaranty and do not constitute a warranty. The purchaser should independently determine, prior to use, the suitability of any material for their specific purpose. (Data represents average values where applicable, and is not intended for specification purposes)

**Warranty:**
All statements, technical information 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 with the understanding that Purchaser has independently determined the suitability of such products for its purposes. Avery Dennison products are warranted to be free from defects in material and workmanship for either two years (or the period stated on the specific product information literature in effect at time of delivery, if longer) from date of shipment if said product is properly stored and applied. 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 to repair or replacement of defective product without charge at Avery Dennison's plant or at the location of product (at Avery Dennison's election), or in the event replacement or repairs is not commercially practical, to Avery Dennison's issuing Purchaser a credit reasonable in light of the defect in the product.

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## Dimensional stability:
Is measured on a 6" x 6" (150 x 150 mm) aluminum panel to which a specimen has been applied; 72 hours after application the panel is scored in a cross pattern, exposed for 48 hours to 150°F (65°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 panel, 24 hours after the specimen has been applied under standardized conditions. Initial adhesion is measured 15 minutes after application of the specimen.

## Flammability:
A specimen applied to aluminum 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. One 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. One hour after removing the panel from the fluid, the specimen is examined for any deterioration.

Revisions are italicized





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