

# Avery® SF 100 Polyester Series

Metallic, Clear, or White - Permanent - StaFlat or Kraft

(formerly: A1 or PX Series Polyesters )

Revision: 2 Dated: 07/02/12

## Uses:

Avery Dennison™ SF 100 polyester films are high gloss films which are clear, white or metalized. These films are top coated for excellent print receptivity, and provide a strong tear resistant surface.

Environmentally responsible alternative films compared to traditional self-adhesive PVC films.



**Face:** Polyester



**Adhesive:** Clear Permanent Acrylic



**Liner:** 78# Bleached Kraft or 90# StaFlat



**Durability:** Up to 2 years

**Application Surfaces:**

Flat

## Features:

- Dimensionally stable liner for easy converting
- High gloss finish
- Excellent conversion on CAD plotters
- Easy cutting & weeding
- Excellent dimensional stability
- Excellent UV, temperature, humidity, and salt-spray resistance
- Available in clear, white, silvers, and golds

## Conversion:

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Thermal Die-Cutting               | <input checked="" type="checkbox"/> Thermal Transfer | <input type="checkbox"/> Solvent based inkjet                         |
| <input checked="" type="checkbox"/> Flat Bed Sign-Cut      | <input checked="" type="checkbox"/> Screen Printing  | <input type="checkbox"/> Mild/Eco Solvent inkjet                      |
| <input checked="" type="checkbox"/> Drum Roller Sign-Cut   | <input type="checkbox"/> Cold Overlaminating         | <input checked="" type="checkbox"/> <i>UV inkjet (with 90# liner)</i> |
| <input checked="" type="checkbox"/> Steel Rule Die-Cutting | <input type="checkbox"/> Water based inkjet          | <input type="checkbox"/> Offset Printing                              |

## Common Applications:

- |   |   |   |
|---|---|---|
| <input checked="" type="checkbox"/> Architectural Signage | <input checked="" type="checkbox"/> Emergency Vehicles  | <input checked="" type="checkbox"/> Outdoor Advertising |
| <input checked="" type="checkbox"/> Directional Signage   | <input checked="" type="checkbox"/> Trains & light rail | <input checked="" type="checkbox"/> Nameplates          |
| <input checked="" type="checkbox"/> Window Graphics       | <input checked="" type="checkbox"/> Buses               | <input checked="" type="checkbox"/> Emblems             |



## Product Data Sheet

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## Physical Characteristics:

Property	Value			
Caliper, face	<table border="0"> <tr> <td> <i>SF100-103-S Clear (1861SFS)</i>  <i>SF100-101-S White (1870SFS)</i>  <i>SF100-840-S Brushed Chrome (1840SFS)</i>  <i>SF100-846-S Bright Chrome (1846SFS)</i> </td> <td rowspan="2">} 2.0 mil (50 µm)</td> </tr> <tr> <td> <i>SF 100-103 Clear (1860SFS)</i>  <i>SF100-242-S Brushed Gold (1842S)</i>  <i>SF100-247-S Double Gold (1850S)</i>  <i>SF100-846-S Chrome Mirror (1847SFS)</i>  <i>SF100-248-S Gold Mirror (1848S)</i> </td> </tr> </table>	<i>SF100-103-S Clear (1861SFS)</i> <i>SF100-101-S White (1870SFS)</i> <i>SF100-840-S Brushed Chrome (1840SFS)</i> <i>SF100-846-S Bright Chrome (1846SFS)</i>	} 2.0 mil (50 µm)	<i>SF 100-103 Clear (1860SFS)</i> <i>SF100-242-S Brushed Gold (1842S)</i> <i>SF100-247-S Double Gold (1850S)</i> <i>SF100-846-S Chrome Mirror (1847SFS)</i> <i>SF100-248-S Gold Mirror (1848S)</i>
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<i>SF 100-103 Clear (1860SFS)</i> <i>SF100-242-S Brushed Gold (1842S)</i> <i>SF100-247-S Double Gold (1850S)</i> <i>SF100-846-S Chrome Mirror (1847SFS)</i> <i>SF100-248-S Gold Mirror (1848S)</i>				
Caliper, adhesive	1.0mil (25 µm)			
Dimensional stability	<0.015" (0.38 mm)			
Tensile at Yield	N/A			
Elongation	N/A			
Gloss	90			
Adhesion:	3.0 lbs/in (525 N/m)			
15 min.				
24 hr	3.5 lbs/in (613 N/m)			
Flammability	Self Extinguishing			
Shelf-Life	1 year			
Durability	Vertical Exposure			
	Gold			
	Brushed Gold			
	Double Sided Gold			
	All Others			
Min. Application Temperature	60° F (16° C)			
Service Temperature	-40° - 257°F (-40° - 125° C)			
Chemical resistance	Resistant to most mild acids, alkalis, and salt solutions.			

### 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 one year (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.

Avery Dennison's liability for defective products shall not exceed the purchase price paid therefore by Purchaser and in no event shall Avery Dennison be responsible for any incidental or consequential damages whether foreseeable or not, caused by defects in such product, whether such damage occurs or is discovered before or after replacement or credit, and whether or not such damage is caused by Avery Dennison's negligence.

NO EXPRESS WARRANTIES AND NO IMPLIED WARRANTIES, WHETHER OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE, OR OTHERWISE (EXCEPT AS TO TITLE), OTHER THAN THOSE EXPRESSLY SET FORTH ABOVE WHICH ARE MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, SHALL APPLY TO PRODUCTS SOLD BY AVERY DENNISON. AVERY DENNISON 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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SPECIALTY SERIES - 78#	AVERY 100 SPECIALTY FILMS PERMANENT KRAFT	PX SERIES - PERMANENT	AVERY 100 SPECIALTY FILMS PERMANENT STAFLAT™
A1842-S Brushed Gold A1848-S Gold Mirror A1850-S Double Gold A1840SF-S Brushed Chrome A1846SF-S Chrome Mirror	SF 100-242-S Brushed Gold SF 100-248-S Gold Mirror SF 100-247-S Double Gold  SF 100-840-S Brushed Chrome  SF 100-846-S Chrome Mirror	PX 1003 Clear PX 1070 Bright Chrome PX 2000 White  PX 2003 Clear  PX 2070 Bright Chrome PX 2072 Brushed Chrome	SF 100-103-S Clear SF 100-846-S Chrome Mirror SF 100-101-S White  SF 100-103-S Clear  SF 100-846-S Chrome Mirror  SF 100-840-S Brushed Chrome

## 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. 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.

## Standards /Regulations:

These products meet the European Toy Regulations EN 71-3 and the January 2007 revision of the EU-Phthalates Directive 2005/84/EC. The products also complies with the US CONEG Model Toxics Legislation, the EC Directive 94/62/EC, article 11 on packaging and packaging waste and RoHS Compliance guidelines, with reference to the acceptable levels of heavy metals, i.e. sum of heavy metals Cadmium, Mercury, Lead and Chromium (VI) is less than 100 ppm. Also both adhesives are approved in accordance to BfR and the removable is additionally approved to FDA for food contact.

## Application:

Application on wet surfaces or using an application fluid (wet applied) may result in adhesive residues being left on the surface after removal when using the removable adhesive product. As no two surfaces are the alike, trials are recommended prior to use in order to ascertain clean removability.

Revisions are italicized

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Avery Dennison EcoFriendly is a trademark of Avery Dennison Corporation. This mark indicates that these products and materials were produced with environmentally beneficial features. For more specific information on Avery Dennison's eco-friendly product features and corporate philosophy on sustainability, go to [www.averygraphics.com](http://www.averygraphics.com).

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