

Avery Dennison® SF100 Polyester Series

Permanent - Kraft, StaFlat™

Revision: 9 Dated: 05/02/23

Uses:

Avery Dennison SF100 polyester films are high gloss films which are clear 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: Permanent Clear Acrylic



Liner:

90# StaFlat™

(SF100-841, -846, -103,)

78# Kraft (SF100-242, -247, -248)



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

Conversion:

- Flatbed Sign-Cutting
- Drum Roller Sign-Cut
- Steel Rule Die-Cut
- UV Inkjet (see printability on pg 2)
- Screen Printing (see printability on pg 2)

Common Applications:

- Architectural Signage
- Directional Signage
- Window Graphics
- Emergency Vehicles
- Trains & Light Rail
- Buses
- Outdoor Advertising
- Nameplates
- Emblems

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Physical Characteristics:

Property	Measurement	Typical Value
Caliper, face		2.0 mil (50 µm) SF100-103-S Clear SF100-242-S Metallized Brushed Gold SF100-247-S Double Gold SF100-248-S Gold Mirror SF100-841-S Metallized Brushed Chrome SF100-846-S Metallized Chrome Mirror
Caliper, adhesive		1.0 mil (25 µm)
Dimensional stability		<0.015" (0.38 mm)
Tensile at Yield		NA
Elongation		NA
Gloss	Hunter Gloss @ 60 degrees	90 GU
Adhesion:	15 min 24 hr	3.0 lbs/in (525 N/m) 3.5 lbs/in (613 N/m)
Flammability		Self Extinguishing
Shelf-Life		1 year from the 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	Reference color and warranty charts in this data sheet.
Min. Application Temperature		60° F (16° C)
Service Temperature		-40° to 257°F (-40° to 125° C) (Reasonable range of temperatures which would be expected under normal environmental conditions).
Chemical resistance		Resistant to most mild acids, alkalis, and salt solutions
Compliance		California Proposition 65.

Printability:

SF100 Series Name	Printability	SF100 Series Name	Printability
SF100-242-S KR Brushed Gold Perm	not printable	SF100-841-S Perm SF Brushed Chrome	screen print & UV digital
SF100-248-S Perm KR Gold Mirror	need custom coat on 90# liner for screen print & UV digital	SF100-103-S Perm SF Clear (2.0 mil)	screen print & UV digital
SF100-247-S Perm KR Double Gold	not printable	SF100-846-S Perm SF Chrome Mirror	screen print & UV digital

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

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.

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.

All sales and contracts for sale of Products are subject to Purchaser's assent and agreement to this Warranty. Avery Dennison hereby objects to any terms or conditions contained in any purchase order or other communication of any kind from the Purchaser that is conflicting, inconsistent or additional to this Agreement.

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Related Documents:

The following Avery Dennison literature will provide necessary information to the user for proper application, storage, and other requirements and is available upon request from your Avery Dennison representative or from the Avery Dennison website (www.graphics.averydennison.com).

Document Title	Reference Number
Substrate Cleaning and Preparation	Instructional Bulletin # 1.10
Storage, Maintenance and Cleaning of PVC Films	Instructional Bulletin # 1.20
Durability of Films	Instructional Bulletin # 1.30
Converting Tips for Sign Films	Instructional Bulletin # 2.10
Tips for Overlaminating, Premasking & Packaging Graphics	Instructional Bulletin # 5.50

Colors Cross Reference:

KR = Kraft liner

SF = StaFlat liner

SF100 Series Name	Item #'s	Vertical Durability Zone 1 Years
SF100-242-S Brushed Gold Perm KR	1842S	Indoor
SF100-248-S Perm KR Gold Mirror	1848S	Indoor
SF100-247-S Perm KR Double Gold	1850S	1

SF100 Series Name	Item #'s	Vertical Durability Zone 1 Years
SF100-841-S Perm SF Brushed Chrome	1840SFS	2
SF100-103-S Perm SF Clear (2.0 mil)	1861SFS	2
SF100-846-S Perm SF Chrome Mirror	1846SFS	2

NOTE: Some color fade may occur in severe environmental areas. Reference IB 1.30 for durability guidelines.

Discontinued Colors:

SF100 Series Name	Item #'s	Vertical Durability Zone 1 Years
SF100-101-S Perm SF White	1870SFS	2
SF100-103-S Perm SF Clear (1.0 mil)	1860SFS	2

SF100 Series Name	Item #'s	Vertical Durability Zone 1 Years
SF100-848-S Perm SF Chrome Mirror (1.0 mil)	1847SFS	2

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 alike, trials are recommended prior to use in order to ascertain clean removability.

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Special Considerations:

Because of the unique properties and varieties of glass, special considerations must be considered for windows and graphic applications. Avery Dennison accepts no liability for glass breakage.

- Glass absorbs heat when exposed to sunlight. The degree of absorption across windows can vary because of shading, heating, and cooling ventilation, and insulation from window frames. These temperature differences across the window produce stress, which can cause glass breakage. The ability of glass to resist breakage because of temperature stress is affected by window size, glass thickness, glass treatments, quality, and design.
- Window cleaning methods also vary, from the type of cleaners used, to the washing methods employed. Specific chemicals used in window cleaners may affect the adhesion of pressure-sensitive graphics. Power washing methods may impact the adhesion of graphics, if the water pressure or temperature exceeds the graphics adhesion capability.

Revisions are italicized

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