

Avery Dennison® SC900 Super Cast Series

Opaque Permanent StaFlat™

Revision: 10 Dated: 01/06/20

Uses:

Avery Dennison SC900 series cast films are premium quality, flexible, opaque solid color high gloss vinyl films designed for use in a wide range of outdoor advertising, fleet marking, of outdoor uses where excellent durability, conformability, color, and gloss are required.



Face: high gloss cast film
opaque - 2.0 mil (50 microns)



Adhesive: Permanent Acrylic
(clear, grey or white)



Liner: 90# StaFlat

Application Surfaces: Flat, Flat with Rivets, Corrugations, Deep Recesses

Features:

- Superior conformability to irregular substrates
- Deeply concave shaped
- Extremely convex shaped
- Compound (concave & convex) shaped
- Best performance on rivets
- Best conformance in channels
- Outstanding durability and outdoor performance
- Dimensionally stable liner for easy converting
- High gloss finish
- Excellent conversion on CAD plotters
- Excellent UV, temperature, humidity, and salt-spray resistance
- Custom colors available (contact your sales representative)

Conversion:

- Thermal Die-Cutting
- Thermal Transfer
- Steel Rule Die-Cut
- Screen Printing (StaFlat)
- Drum Roller Sign-Cut

Common Applications:

- Trucks
- Trailers
- Cars & Vans
- Marine
- Architectural Signage
- Directional Signage
- Emergency Vehicles
- Trains & Light Rail
- Buses
- OEM Durable Decals
- Outdoor Advertising

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Physical Characteristics:

Property	Measurement	Typical Value
Caliper, face		opaque - 2.0 mil (50 microns)
Caliper, adhesive		1.0 mil (25 µm)
Dimensional stability		<0.015"(0.4 mm)
Tensile at Yield		4.0 - 8.0 lb/in (0.7 - 1.5 kg/cm)
Elongation		150% min.
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		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	Reference color and warranty charts in this data sheet.
Min. Application Temperature		50° F (10° C)
Service Temperature		-50° to 180°F (-45° to 82° C) (Reasonable range of temperatures which would be expected under normal environmental conditions).
Chemical resistance		Resistant to most mild acids, alkalis, and salt solutions

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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
Ink recommendations for Cast, Reflective, Calendered, and Specialty Products	Instructional Bulletin # 3.00
Sericol TMI II Screen Inks: Metallics	Instructional Bulletin # 3.20
Sericol TMI II Screen Inks: Four Color Process	Instructional Bulletin # 3.21
Sericol TMI Screen Inks: Opaques, Translucents, and Transparents	Instructional Bulletin # 3.22
Sericol UTMI II Overprint Clear Coat	Instructional Bulletin # 3.23
Sericol TMI II 1000 Overprint Clear Coat	Instructional Bulletin # 3.24
Nazdar 3500 UV Fleet	Instructional Bulletin # 3.30
Application Instructions for Avery Dennison® Films	Instructional Bulletin # 4.00
Removal Instructions for Avery Cast, Calendered, Reflective, and Polyester Films	Instructional Bulletin # 4.10
Thermal Transfer Printing, Converting, Operating, and Product Instructions	Instructional Bulletin # 5.10
Tips for Overlaminating, Premasking & Packaging Graphics	Instructional Bulletin # 5.50
Stainless Steel Application Outdoor Durability	Tech Bulletin

Colors & Expected Durability

Vertical Durability for Zone 1 vertical applications is noted in the chart below. Color samples are available from samples.graphics@averydennison.com, or through your sales or customer service contact. Reference Instructional Bulletin 1.30 for zones by geographic location.

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

Colors Cross Reference - Opaque:

KR = Kraft liner

SF = StaFlat liner

SC950 Series Name	Vertical Durability Zone 1 Years
SC900-103-O Clear Perm SF	10
SC900-108-O Cover White Perm SF	12
SC900-190-O Black Perm SF	12

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

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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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