

AveryDennison® SC 900 Ultimate Cast Series

Opaque Easy Apply™

Revision: 1 Dated: 11/25/13

Uses:

Avery Dennison® SC 900 Opaque Easy Apply high performance *Super Cast* vinyl films are premium quality, flexible, opaque solid color, high gloss, thin, vinyl films designed for use in architectural, transportation and general signage markings requiring ease of use during application. Easy Apply™ technology is a revolutionary way to maximize productivity, making projects quicker and easier. The embossed liner creates air egress channels in the adhesive providing smooth coverage and fewer wrinkles. As the technology is in the liner, not in the face film or adhesive, you can expect the same trusted performance from A9 Opaque Easy Apply™ as you always have from standard A9 Opaque.



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



Adhesive: Permanent Acrylic (clear, gray, or white)



Liner: 90# StaFlat, Poly-Coated with Avery Graphics Easy Apply™ technology



Durability: Up to 12 years

Application Surfaces:

Flat, Flat with Rivets, Corrugations. Deep Recesses

Features:

- Superior conformability to irregular substrates
 - Deeply concave shaped
 - Extremely convex shaped
 - Best performance on rivets
 - Best conformance in channels
- Outstanding durability and outdoor performance
- High gloss finish
- Excellent conversion on CAD plotters
- Excellent dimensional stability
- Excellent UV, temperature, humidity, and salt-spray resistance
- Custom colors available (contact your sales representative)
- Easy apply feature helps eliminate wrinkles and bubbles during application
- Meets CPSIA standards for limitations on lead and phthalates – White & Clear Only

Conversion:

- Thermal Die-Cutting
- Flat Bed Sign-Cut
- Drum Roller Sign-Cut
- Steel Rule Die-Cutting
- Thermal Transfer
- Screen Printing

Common Applications:

- Trucks
- Trailers
- Cars & Vans
- Marine
- Architectural Signage
- Directional Signage
- Emergency Vehicles
- Trains & Light Rail
- Roll Striping
- Buses
- Outdoor Advertising

Product Data Sheet

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Graphics and Reflective Solutions

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AnswerLine: 800-231-4654

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Physical Characteristics:

Property	Value	
Caliper, face	2.0 mil (50µm)	
Caliper, adhesive	1.0mil (25 µm)	
Dimensional stability	<0.015"(0.4mm)	
Tensile at Yield	4.0 - 8.0 lb/in (0.7–1.5 kg/cm)	
Elongation	150% min.	
Gloss	90%	
Adhesion: 24 hr.	3.0 lbs/in (525 N/m)	
1 week	4.0 lbs/in (700 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	
	Black & White	12 years
	Colors	Up to 10 years
Flammability	Self Extinguishing	
Min. Application Temperature	45° F (7° C) Flat without rivets 50° F (10° C) Flat w/ rivets	
Service Temperature	-50° - 180°F (-45° - 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.	

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.

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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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 for 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.

Accelerated Aging:

No negative impact on films performance, wherein the color is within industry standards for Delta Σ shift. Material is applied to panels, and placed in a Xenon Arc Artificial Weatherometer, and exposed under conditions of SAE J1960, for 2000 hours. Some color fade may occur in severe environmental areas. Reference IB 1.30 for durability guidelines.

Color Matching:

Fast turnaround service is offered for projects where specific color needs cannot be obtained from the broad offering of stock colors. Matches can be made to Pantone® color references, or by submitting a small reference sample (minimum 4" x 4") For match requirements, contact your Avery Dennison representative.

Pantone® Cross Reference:

Avery Dennison® has been certified to produce custom color films matching Pantone® color number references. A range of pre-matched Pantone® colors are available for ease of use for designers and signmakers. Custom color matches are available by referencing the Pantone® color system. For match requirements, contact your Avery Dennison® representative.

Absence of banned substances:

Avery Dennison® Black, White, and Clear SuperCast films meet the following European Directives.

EU Directive 94/62 on packaging and packaging waste Article 11 : Max. sum of concentration levels of lead, cadmium, mercury and hexavalent chromium: < 100 ppm.

EU Directive 2002/96/EC on restrictions of use of hazardous substances in electrical and electronic equipment Article 4.1: no contents of lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), polybrominated diphenylethers (PBDE).

EU Directive 2000/53/EC on end-of life of vehicles article 4.2.(a) : no contents of lead, mercury, cadmium or hexavalent chromium.

Revisions are italicized

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