

# Avery Dennison® SC 900 Super Cast Series

Metallics Permanent Easy Apply™

Revision: 4 Dated: 07/17/14

## Uses:

Avery Dennison® Super Cast Series Metallic vinyl films are premium quality, flexible, opaque solid color, and high gloss metallic vinyl films designed for use as a premium architectural, transportation and general signage markings. Avery Dennison® Super Cast Series Metallic offers exceptional value for applications requiring extended durability. 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 Avery Dennison® Super Cast Series Metallic films as you always have from standard Super Cast Metallic film.



**Face:** 2.1 mil (53 µm)



**Adhesive:** Permanent Acrylic (clear)



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



**Durability:** Up to 6 years

**Application Surfaces:**

Flat, Flat & Rivets

## Features:

- Outstanding durability and outdoor performance
- Superior conformability to irregular substrates
- High gloss finish
- Excellent conversion on CAD plotters
- Easy cutting & weeding
- Excellent dimensional stability
- Excellent UV, temperature, humidity, and salt-spray resistance
- Custom colors available (contact your sales representative)

## Conversion:

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

## Common Applications:

- Trucks
- Trailers
- Cars & Vans
- Marine
- Architectural Signage
- Directional Signage
- Emergency Vehicles
- Roll Stripes
- Trains & light rail
- Buses
- Outdoor advertising

## Product Data Sheet

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### Physical Characteristics:

Property		Value
Caliper, face	Metallic	2.1 mil (53 µm)
Caliper, adhesive		1.0mil (25 µm)
Dimensional stability		<0.015"(0.4mm)
Tensile at Yield		4.0-8.0lb/in (0.7–1.5 kg/cm)
Elongation		50% min.
Gloss		90
Adhesion:		
	24 hour	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	
	Red	Up to 6 years
	Silver	Up to 5 years
Min. Application Temperature	Metallic	40° F (4° C)
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.

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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. 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.

Revisions are italicized

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