

Avery Dennison® SC 900 Super Cast Series

Opaque Permanent 733 StaFlat™

Revision: 1 Dated: 11/15/13

Uses:

Avery Dennison® SC 900 Super Cast 733 is a premium quality, flexible, opaque solid color high gloss vinyl film with a proprietary adhesive system designed for use in demanding applications. The adhesive system is ideally suited for use on low energy substrates such as plastics, powder coat paints, fiberglass, and painted metals. This construction provides excellent cutting, weeding, and transferring characteristics for a wide range of decorative and corporate identification applications. When used with approved ink systems, the finished decals are ideal for outdoor uses where excellent durability, conformability, color and gloss are required.



Face: 2.1 mil (53 microns) high gloss cast film



Adhesive: S733 Clear Permanent Acrylic



Liner: 90# StaFlat



Durability: Up to 12 years

Application Surfaces:

Flat, Simple Curves

Features:

- 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
- Specialty adhesive for use on difficult substrates like powder coat paint and plastics

Conversion:

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

Common Applications:

- Trucks
- Trailers
- Cars & Vans
- Marine
- Emergency Vehicle
- Trains & Rail
- Buses
- Architectural Signage
- Outdoor Advertising
- Way finding Signage
- Recreational Vehicles

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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: SS	15 min.	3.5 lbs/in (612 N/m)
	24 hr.	5.0 lbs/in (875 N/m)
Painted Aluminum	15 min.	4.25 lbs/in (525 N/m)
	24 hr.	4.25 lbs/in (612 N/m)
Filon	15 min.	4.25 lbs/in (437 N/m)
	24 hr.	4.25 lbs/in (525 N/m)
Flammability	Self Extinguishing	
Shelf-Life	<i>2 years from date on label (up to 2 years unprocessed, OR process within one year and apply within 1 year of processing)</i>	
Durability	Vertical Exposure	12 years
Min. Application Temperature	30° F (-1° C)	
Service Temperature	-40° - 200 °F (-40° - 93° 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.

Absence of banned substances:

Avery Dennison® WhiteSuperCast 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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