

# Avery Dennison® 900 Supercast

## Features

- Super conformable cast film for reliable application on to concave, convex, compound curves and in to deep recesses without the need to make incisions
- Outstanding durability and outdoor performance
- Dimensionally stable backing for easy converting
- Spectacular high gloss finish
- Excellent conversion properties on computerised cutters
- Easy cutting and weeding
- Excellent dimensional stability
- Excellent UV, temperature, humidity and salt-spray resistance
- Batch reference and product identification printed on liner for traceability
- Contrasting blue liner on white
- Excellent colour range

## Conversion

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Flat bed cutters     | <input type="checkbox"/> Cold overlaminating |
| <input checked="" type="checkbox"/> Friction fed cutters | <input type="checkbox"/> Estat printing      |
| <input checked="" type="checkbox"/> Die cutting          | <input type="checkbox"/> Water based inkjet  |
| <input type="checkbox"/> Thermal transfer                | <input type="checkbox"/> Solvent inkjet      |
| <input type="checkbox"/> Screen printing                 | <input type="checkbox"/> UV Cured inkjet     |

## Custom Colours

A fast colour matching service is offered for projects where specific colours are required. Minimum order quantity is 61m<sup>2</sup>.

## PANTONE® Reference

A range of PANTONE® – approved colours is offered for faster colour choices and for ease of use for designers and sign makers. A separate list with PANTONE® – approved cross-references shows the approved colours and the link to the standard Avery Dennison name and code

## Uses

Avery Dennison® 900 Supercast Signage Film with improved conformability is ideal for a wide range of corporate and general signage applications where conformability, durability and superior outdoor performance and exact colour is required.

## Description



**Film:** 50 micron supercast vinyl



**Adhesive:** Permanent acrylic



**Backing:** One side coated Kraft paper, 135 g/m<sup>2</sup>



**Outdoor life:**  
Up to 12 years



**Colours:** 80 standard  
Including 44 approved  
PANTONE® colours

## Common Applications

- Vehicle graphics
  - Application on concave, convex and compound surfaces without the need to make incisions
  - Inlays may be eliminated due to the superior conformability
- Emergency vehicles
- Flat sided trucks
- Corrugated trucks
- Marine and recreational vehicles
- Trains and light rail
- Architectural
- Directional signage
- Industrial machinery
- Buses
- Windows
- Outdoor advertising

## Physical characteristics

### General

Calliper, face film	ISO 534	50 micron
Calliper, face film & adhesive	ISO 534	80 micron
Dimensional stability	DIN 30646	0.15 mm max
Tensile strength	DIN 53455	1.0 kN/m min
Elongation	DIN 53455	150%
Gloss	ISO 2813, 20°	50%
Adhesion, initial	FINAT FTM-1, stainless steel	540 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	600 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Accelerated ageing	SAE – J 1960 2000 hours exposure	No negative impact on film performance
Expected Durability **	Vertical exposure^^	
	Black & white	12 years
	Colours & transparent	10 years
	Metallics	5 years

^^Horizontal applications are not warranted and do not have any expectations of durability. The exposure of films in the horizontal position invalidates any performance expectations as stated in appropriate Product Data Sheets, Instructional Bulletins and ICS Performance Guarantee Durability Bulletins. Films may retain legibility, but will not provide published expected durability for gloss, colour retention, chalking, dimensional stability and overall aesthetic performance.

### Thermal

Application temperature	Minimum: + 10°C
Temperature range	- 50°C to + 110°C

### Chemical

Humidity resistance	120 hours exposure	No effect
Corrosion resistance	120 hours exposure	No contribution to corrosion
Water resistance	48 hours immersion time	No effect
Sea water resistance	1 year half tide immersion BS5609:1978	No effect
Chemical Solvent Resistance		
<b>Test Fluid:</b>	<b>Immersion Time:</b>	<b>Adhesion:</b>
Gasoline	1 hour	400 N/m
Diesel oil	24 hours	500 N/m
Transformer oil	24 hours	500 N/m
Antifreeze	24 hours	500 N/m
SAE Motor oil	24 hours	500 N/m
Kerosene	24 hours	500 N/m
Distilled water (65°C)	24 hours	600 N/m
Detergent solution (65°C)	8 hours	600 N/m

### Test Methods

#### Dimensional stability:

Is measured on a 150 x 150 mm aluminium panel to which a specimen has been applied; 72 hours after application the panel is exposed for 48 hours to + 70°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 or float glass panel, 24 hours after the specimen has been applied under standardised conditions. Initial adhesion is measured 20 minutes after application of the specimen.

#### Flammability:

A specimen applied to aluminium 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.

### Important

Information on physical characteristics is based upon tests we believe to be reliable. The values listed herein are typical values and are not for use in specifications. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of any material for their specific use.

All technical data is subject to change without prior notice.

### Warranty

Avery Dennison® materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied. No salesman, representative or agent is authorised to give guarantee, warranty, or make any representation contrary to the foregoing.

All Avery Dennison® materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

### \*\*Expected Durability

The expected durability of Avery Dennison films are defined as the expected performance life of the Avery Dennison graphic film(s) within Zone 1 of the Avery Dennison zone system, in outdoor vertical exposure conditions.

The actual performance life will depend on a variety of factors, including selection and preparation of substrate, angle and direction of exposure, application methods, environmental conditions and cleaning/maintenance of the films. In case of films used in areas of high temperatures or humidity, high altitudes and industrially polluted areas the performance will be further reduced.

### Expected Durability and Warranted Period Definitions

Expected durability is the expected period of time defined in the product data sheet, the product should, but is not warranted to, perform satisfactorily when applied in vertical exposure conditions as defined in Instructional Bulletin 1.30. The warranted period as defined in ICS Performance Guarantee Bulletin 2.1, is the maximum period of time Avery Dennison will warrant the finished products performance in accordance with ICS Performance Guarantee Terms and Conditions 1.0, provided that the film is properly stored, converted and installed in accordance with Avery Dennison guidelines.

\*May be covered by one or more US patents 7,344,618, 7,332,205, and other US and foreign patents pending.

PANTONE® is the property of Pantone, Inc.

### 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.

### Corrosion Resistance:

A specimen applied to aluminium is exposed to saline mist (5% salt) at 35°C. After exposure, the film is removed and the panel is examined for traces of corrosion.



Graphics  
Solutions

Avery Dennison Graphics Solutions Asia Pacific

www.graphicsap.averydennison.com