

# Avery Dennison® 900 Supercast Easy Apply™ LTR

With Easy Apply and Long Term Removability

## Features

- Super conformable cast film for reliable application on to concave, convex, compound curves and into deep recesses without the need to make incisions
- Outstanding outdoor durability and performance
- Dimensionally stable StaFlat™ backing for easy converting
- Superior high gloss or matte finish film
- Excellent conversion properties on computerised cutters
- Easy cutting and weeding
- Excellent dimensional stability after application
- Excellent UV, temperature, humidity and salt-spray resistance
- Batch reference and product identification printed on liner for traceability
- Contrasting blue liner on white
- Easy Apply adhesive system with air egress channels for fast and easy removal of entrapped air bubbles
- Available in 1.52m width for seamless vehicle wrapping
- Excellent long term removability for the life of the film with little or no adhesive residue
- Custom colour matching available including a range of Pantone-approved colours.

## Conversion

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

## Avery Dennison® Colour Matching

A custom colour matching service is offered for projects where specific colour needs cannot be matched from the standard colour range. For supply conditions please consult your Avery Dennison representative.

## Uses

Avery Dennison Dennison™ 900 Supercast Easy Apply LTR is a premium quality opaque film designed for use in fleet marking and corporate identification applications requiring enhanced ease-of-use during application. The patent-pending Avery Dennison Easy Apply™ feature offers the benefits of reduced wrinkling and air entrapment inherent in the application of decals and graphics. Avery Dennison Dennison's long-term removable adhesive system offers residue-free removal over the warranted life of a graphic applied to many typical commercial and fleet vehicle surfaces.

## Description



**Film:** 50 micron super cast vinyl



**Adhesive:** Clear permanent acrylic with Easy Apply™ and long term removability  
**Removability:** Up to 5 years



**Liner:** Two side PE coated StaFlat™ paper, 145g/m<sup>2</sup>



**Outdoor life\*\*:**  
Up to 12 years



**Colours:** 15 standard including 6 referenced 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	75 micron
Dimensional stability	DIN 30646	0.4 mm (max)
Tensile strength	DIN 53455	0.7-1.5 kg/cm (min)
Elongation at break	DIN 53455	150% min
Gloss		90% (min)
Adhesion, initial (20mins)	FINAT FTM-1, stainless steel	315 N/m
Adhesion, ultimate (24hrs)	FINAT FTM-1, stainless steel	367 N/m
Adhesion, 1 week	FINAT FTM-1, stainless steel	700 N/m
Removability <sup>^</sup>	Smooth OEM painted surfaces	Up to 5 years
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	10 years
	Metallic	7 years

<sup>^</sup> Not removable when applied to nitrocellulose paints, fresh screen print inks, ABS, polystyrene & certain types of PVC.

<sup>^^</sup>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	- 42°C to + 82°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
Chemical Resistance	Applied to aluminium	No effect exposed to: Oil, greases, motor oils, mild acids and alkalis.

### 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  
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Avery Dennison Graphics Solutions Asia Pacific

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