

# Avery® 900 Super Cast

## New Generation

### Features

- Superior conformability to irregular substrates
  - Deep concaves
  - Convex & compound curves
  - Rivets & corrugations
- 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 checked="" type="checkbox"/> Thermal transfer     | <input type="checkbox"/> Solvent inkjet      |
| <input checked="" type="checkbox"/> Screen printing      | <input type="checkbox"/> Mild solvent 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 name and code

### Uses

Avery® 900 Super Cast 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 super cast vinyl



**Adhesive:** Repositionable permanent acrylic



**Backing:** One side coated Kraft paper, 140 gsm



**Outdoor life:**  
up to 12 years- middle Europe  
Up to 10 years- Australia/NZ



**Colours:** 163 standard  
Including 80 approved  
PANTONE® colours

### Common Applications

- Vehicle graphics and total vehicle wrapping
  - 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

Caliper, facefilm	ISO 534	50 micron
Caliper, facefilm & adhesive	ISO 534	85 micron
Dimensional stability	DIN 30646	0.2 mm max
Tensile strength	DIN 53455	1.0 kN/m min
Elongation	DIN 53455	100%
Gloss	ISO 2813, 20°	50%
Adhesion, initial	FINAT FTM-1, stainless steel	540 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	720 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
Durability **	Vertical exposure	
	Black & white	10 years
	Colours & transparent	9years
	Metallics	5 years

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

### \*\*Durability

The durability is based on Australian exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing north; in areas of long high temperature exposure such as northern Australia; in industrially polluted areas or high altitudes, exterior performance will be decreased.

\*\*\*Information unavailable at time of printing.

#### 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.

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