

Avery Dennison[®] 900 Ultimate Cast Metallics

(Formerly Avery Dennison[®] A3, A5, A7 Cast Metallics)

Features

- Brilliant metallic effects
- Outstanding durability and outdoor performance
- Superior conformability to irregular substrates
- Gloss finish and excellent colour uniformity
- Excellent conversion properties on computerised cutters
- Easy cutting & weeding
- Excellent dimensional stability
- Excellent UV, temperature, humidity and salt-spray resistance

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. A minimum order quantity 1100m² is required.

Uses

Avery Dennison 900 ultimate cast metallic films are ideal for a wide range of automotive, marine, striping and general signage applications where conformability, durability and superior outdoor performance is required.

Description



Film: 50 micron metallic cast vinyl



Adhesive: Permanent acrylic



Backing: One side coated bleached Kraft paper



Outdoor life
Up to 7



Colours: 36 standard

Common Applications

- Flat sided trucks
- Corrugated trucks
- Cars and vans
- Marine
- Trains and light rail
- Architectural signage
- Buses
- Window graphics
- Point of purchase
- Display and exhibition

Physical characteristics

General

Caliper, facefilm	ISO 534	50 micron
Caliper, facefilm & adhesive	ISO 534	80 micron
Dimensional stability	DIN 30646	0.2 mm max
Tensile strength	DIN 53455	0.3 to 0.6 kg/cm ²
Elongation	DIN 53455	50% minimum
Adhesion, initial	FINAT FTM-1, stainless steel	540 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	700 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22 °C/50-55 % RH	1 year
Durability **	Vertical exposure	
	Bright gold, light gold, gold metallic	up to 5 years
	Other colours	up to 7years

Thermal

Application temperature	Minimum: + 4°C
Temperature range	- 46°C to + 82°C

Chemical

Resistant to most petroleum based oils greases and aliphatic solvents
Resistant to most mild acids alkalies and salts

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.

**Durability

Durability is based on exposure conditions in the normal middle European and central North American regions. 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 the southern hemisphere or south in the northern hemisphere; in areas of long high temperature exposure such as northern Australia; in industrially polluted areas or high altitudes, exterior performance will be decreased. Please refer to Avery Dennison Instructional Bulletin 1.3 for definitions and reductions based on the 'Zone System'.

***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.