Avery Dennison® 900 Screen

Gloss White Cast Vinyl Permanent

Features

- Excellent sheet stability and layflatness for precise register and printing
- Excellent printability, conversion and application characteristics
- Excellent conformability to irregular substrates
- High gloss for superior appearance
- Excellent dimensional stability during use
- Excellent outdoor durability
- Superb UV, humidity and saltspray resistance

Description

Film: 50 micron gloss white cast vinyl

Adhesive: Permanent acrylic

Backing: Two side polyethylene coated Staflat paper

Outdoor life: up to 10 years (unprinted)

Conversion^

■ **Flat bed cutters**	☐ Cold overlaminating
■ **Friction fed cutters**	☐ Electrostatic printing
■ **Die cutting**	☐ Latex inkjet
■ **Thermal transfer**	☐ Eco solvent inkjet
■ **Screen printing**	☐ Solvent inkjet
☐ Offset printing	☐ UV curable inkjet

^Always test with your combination of printer and inks prior to commercial use.

Uses

Avery Dennison 900 Screen is ideal for a wide range fleet and architectural signage applications where conformability, durability and superior outdoor performance are required.

Common Applications

- Flat sided trucks
- Corrugated trucks
- Cars and vans
- Marine
- Architectural signage
- Industrial machinery
- Window graphics
- Outdoor advertising

Physical characteristics

General

Calliper, face film	ISO 534	50 micron
Calliper, face film & adhesive	ISO 534	80 micron
Dimensional stability	DIN 30646	0.2 mm max
Tensile strength	DIN 53455	22 N/mm²
Elongation	DIN 53455	50%
Gloss	ISO 2813, 20º	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	DIN 53387 1500 hours exposure	No negative impact on film performance
Durability **	Vertical exposure	up to 10 years (unprinted)

Thermal

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

Chemical

Humidity resistance	200 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 BS5609:1987	No effect
Chemical Solvent Resistance		
Test Fluid:	**Immersion Time:**	**Adhesion:**
Gasoline	1 hour	600 N/m
Diesel oil	24 hours	600 N/m
Transformer oil	24 hours	600 N/m
Antifreeze	24 hours	600 N/m
Distilled water (65ºC)	24 hours	600 N/m
Detergent solution (65ºC)	8 hours	600 N/m
SAE Motor oil	24 hours	600 N/m
Kerosene	24 hours	600 N/m

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.

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.

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 35ºC. After exposure, the film is removed and the panel is examined for traces of corrosion.