

PRODUCT DATA SHEET

Avery Dennison® 900 Screen

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Introduction

Avery Dennison 900 Screen is a premium quality cast film for a wide variety of screenprinted graphics, including riveted, corrugated and otherwise structured substrates.

Description

Facefilm: premium quality, 50 micron, high gloss cast vinyl
900 Screen White
901 Screen Black
940 Screen Transparent
Adhesive: permanent adhesive, acrylic based
Backing paper: two side polyethylene coated kraft paper

Conversion

Avery Dennison 900 Screen films can be screen printed with high quality vinyl screen inks. Avery Dennison 900 Screen films have excellent die-cutting characteristics.
For screen ink recommendations, please consult Avery Dennison Technical Bulletin 2.2.

Features

- Excellent sheet stability for exact register at screenprinting.
- Excellent printability, conversion and application characteristics.
- Good conformability to irregular substrates.
- High gloss for superior appearance.
- Excellent dimensional stability during use.
- Excellent outdoor durability, UV-light, humidity and saltspray resistance.

Recommendations for use

- Vehicle graphics.
- Markings on boats, yachts, caravans and campers.
- Interior graphics.
- Exterior building decorations and markings.
- Original equipment identification.
- Interior and exterior markings for military and commercial vehicles.

Custom colours

Colours and a colour matching service are available for projects where specific colours are required (min. order quantity 1000 m²).

Physical properties

Features	Test method ¹	Results
Caliper, facefilm	ISO 534	50 micron
Caliper, facefilm + adhesive	ISO 534	80 micron
Tensile strength	DIN 53455	1,1 kN/m
Elongation	DIN 53455	50 %
Gloss	ISO 2813, 20°	50 %
Dimensional stability	FINAT FTM 14	0,2 mm max.
Adhesion, initial	FINAT FTM-1, stainless steel	540 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	720 N/m
Flammability		Self-extinguishing
Accelerated ageing	DIN 53387 1500 hours exposure	No negative impact on film performance
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability ²	Vertical exposure	
White + Black		10 years
Transparent		8 years

Temperature range

Features	Results
Minimum application temperature:	+10° C
Service temperature:	- 50° to + 110° C

Chemical properties

Features	Test method ¹	Results
Humidity resistance	200 hours exposure	No effect
Corrosion resistance	120 hours exposure	No contribution to corrosion
Water resistance	48 hours immersion	No effect
Sea water resistance	1 year half tide immersion. BS 5609:1978	No effect
Chemical/Solvent resistance		
Test Fluid	Immersion time	Adhesion
Gasoline	1 hour	600N/m
Diesel Oil, transformer oil, SAE motoroil, antifreeze, distilled water 65°C	24 hours	600 N/m
Detergent solution 65°C	8 hours	600 N/m
Kerosene	24 hours	600 N/m

Important

Information on physical and chemical 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 this material to their specific use. All technical data are subject to change.

Warranty

Avery Dennison® branded 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 any guarantee, warranty, or make any representation contrary to the foregoing. All Avery Dennison® branded materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

1) Test methods

More information about our test methods can be found on our website.

2) Durability

The durability is based on middle European 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 south; in areas of long high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased.