

PRODUCT DATA SHEET

Avery Dennison® 6903/6943

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Introduction

Avery Dennison 6900 Series is a range of screenprint films for applications that require the highest film performance. This range offers a positionable, permanent adhesive for easy application.

Description

Facefilm: premium quality, 50 micron cast vinyl
6903 Gloss White with **grey** adhesive
6943 Transparent with **clear** adhesive
Adhesive: positionable **permanent** adhesive, acrylic based
Backing paper: two-side polyethylene coated kraft paper

Conversion

Avery Dennison 6900 films can be screen printed with high quality vinyl screen inks. Avery Dennison 6900 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.
- Low tack adhesive allows easy positioning at application.
- High gloss for superior appearance.
- High opacity on Avery Dennison 6903 Gloss White.
- Excellent dimensional stability during use.
- Excellent outdoor durability, UV-light, humidity and saltspray resistance.

Recommendations for use

- Permanent promotions and fleet graphics, where conformability is required, i.e. promotions on irregular surfaces.
- Interior and exterior markings for military and commercial vehicles.
- Exterior building decorations and markings.
- Markings and decorations on boats and yachts.

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 method¹	Results
Caliper, facefilm	ISO 534	50 micron
Caliper, facefilm + adhesive	ISO 534	80 micron
Tensile strength	DIN 53455	1,1 kN/m
Elongation	DIN53455	50 %
Gloss	ISO 2813, 20°	50 %
Dimensional stability	FINAT FTM 14	0,2 mm max.
Adhesion, initial	FINAT FTM-1, stainless steel	480 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	600 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		10 years
Transparent		8 years

Temperature range

Features	Results
Minimum application temperature:	+10° C
Service temperature:	- 40° to + 110° C

Chemical properties

Features	Test method¹	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

All Avery Dennison statements, technical information and recommendations are based on tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that purchaser has independently determined the suitability of such products for its purposes.

All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see <http://terms.europe.averydennison.com> .

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.