

# 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. This series is available in the following colours: 6903 Gloss White with **grey** adhesive and 6943 Transparent with **clear** adhesive.

### Conversion

Avery Dennison 6900 films can be screen printed with high quality vinyl screen inks. Avery Dennison 6900 films have excellent die-cutting characteristics.

### Recommendations

- » 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.

### 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.

### Custom colours

Colours and a colour matching service are available for projects where specific colours are required (min. order quantity 1000 m<sup>2</sup> ).



#### Face Film

Premium quality, 50 micron cast vinyl



#### Adhesive

Positionable permanent adhesive, acrylic based



#### Backing

Two-side polyethylene coated kraft paper



#### Durability

Up to 10 years outdoor (vertical exposure)



#### Shelf Life

2 years stored at 23°C / 50% RH

## Physical Characteristics

Product	Test method <sup>1</sup>	Results
Caliper, facefilm (micron)	ISO 534	50
Caliper, facefilm + adhesive (micron)	ISO 534	80
Gloss (%)	ISO 2813, 20°	50%
Dimensional stability (mm max.)	FINAT FTM 14	0.2mm max.
Shelf life (years)	Stored at 22° C/50-55 % RH	2
Durability <sup>2</sup> (years)	Vertical exposure - zone 1	
White		10
Transparent		8
<b>Adhesive</b>		
Tensile strength (kN/m)	DIN ISO 527-3	1.1
Elongation (%)	DIN ISO 527-3	50%
Adhesion, initial (N/m)	FINAT FTM-1, stainless steel	480
Adhesion, ultimate (N/m)	FINAT FTM-1, stainless steel	600
Flammability		Self-extinguishing
Accelerated ageing	DIN 53387, 1500 hours exposure	No negative impact on film performance
<b>Temperature range</b>		
Application temperature (Minimum: °C)		+10
Service temperature (°C to +°C)		-40 to +110
<b>Chemical properties</b>		
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	BS5609:1986 section 2	No effect
	3 months immersion	
<b>Chemical/Solvent resistance</b>		<b>Adhesion (N/m)</b>
Gasoline	1 hour immersion time	600
Diesel Oil, transformer oil, SAE motoroil, antifreeze, distilled water 65°C	24 hours immersion time	600
Detergent Solution 65°C	8 hours immersion time	600
Kerosene	24 hours immersion time	600

## Important

Information on physical and chemical characteristics and values in this document are based upon tests we believe to be reliable and do not constitute a warranty. 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. In case of any ambiguities or differences between the English and foreign versions of this document, the English version shall be prevailing and leading.

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.

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