

# PRODUCT DATA SHEET

## Avery Dennison<sup>®</sup> MPI<sup>™</sup> 1900 Series

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### Introduction

Avery Dennison MPI 1900 cast films are gloss white, highly conformable self-adhesive vinyls. The films are suitable for use on a variety of super-wide format inkjet printers using solvent, eco solvent or UV curable ink. Due to the films' excellent durability and conformability, Avery Dennison MPI 1900 series cast films are highly recommended for applications on rivets and corrugations.

### Description

Film	:	50 micron gloss white cast vinyl
Adhesive	:	<b>MPI 1900</b> <b>MPI 1900 Easy Apply</b> <b>MPI 1906 AP</b>
		Repositionable, permanent, grey, acrylic based Repositionable, permanent, grey, low tack, acrylic based Permanent, grey, acrylic based, designed for low-surface energy substrates
Backing paper	:	<b>MPI 1900</b> <b>MPI 1900 Easy Apply</b> <b>MPI 1906 AP</b>
		Two sides polyethylene coated kraft paper, 140 g/m2 Easy Apply Stafflat liner Two sides polyethylene coated kraft paper, 140 g/m2

### Conversion

MPI 1900 cast films deliver an outstanding price performance choice for a wide range of graphics applications.

To enhance colour and to protect images against UV radiation and abrasion, Avery Dennison MPI 1900 cast films are recommended to be protected using an overlamine or varnish.

If the final graphic is used on corrugated vehicles or substrates, Avery Dennison DOL 1460 Gloss or Avery Dennison DOL 1480 Matt conformable laminates are recommended.

For recommended combinations of DOL films and media, please refer to "[Technical Bulletin 5.3. Recommended combinations of Avery Dennison® Overlaminates and Avery Dennison® Digital Print Media](#)".

For information on how to apply Avery Dennison MPI Cast Films, please refer to "[Technical Bulletin 5.9. Application methods for Avery Dennison Cast Films](#)".

### Uses

- Vehicle graphics.
- Interior & exterior signs.
- Window decoration.
- Promotional and point of sale advertising.
- All permanent applications requiring conformability.

### Features

- Excellent conformability\* for demanding 3D applications
- Stunning print performance and handling on selected printers
- High gloss or matt finishes\*
- Faster and easier installation, including Easy Apply technology (MPI 1900 EA)
- Adheres to low-energy surfaces (MPI 1906 AP), a solution for PP, PE and PU substrates
- Long outdoor durability, up to 4 years\* printed and 7 years unprinted
- ICS Performance Guarantee

\* when used in combination with DOL 1400 cast overlamine series



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## PRODUCT CHARACTERISTICS

### Physical properties

Features	Test method <sup>1</sup>	Results
Caliper, facefilm	ISO 534	50 micron
Caliper, facefilm + adhesive	ISO 534	80 micron
Elongation	DIN 53455	> 100 %
Dimensional stability	FINAT FTM 14	0.4 mm max
Adhesion		
<b>MPI 1900</b> initial	FINAT FTM-1, stainless steel	350 N/m
ultimate	FINAT FTM-1, stainless steel	500 N/m
<b>MPI 1900 EA</b> initial	FINAT FTM-1, stainless steel	250 N/m
ultimate	FINAT FTM-1, stainless steel	450 N/m
<b>MPI 1906 AP</b> initial	LDPE, HDPE, Polypropylene, Polyurethane, ABS, Aluminium	300 N/m
ultimate	LDPE, HDPE, Polypropylene, Polyurethane, ABS, Aluminium	350 N/m
Flammability		Self-extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability, unprinted	Vertical exposure	7 years

### Temperature range

Features	Results
Minimum application temperature:	<b>MPI 1900 / MPI 1900 EA</b> ≥ 10 °C
	<b>MPI 1906 AP</b> ≥ 5 °C
Service temperature:	- 40 °C to + 80 °C

**NOTE:** Materials have to be properly dried before further processing, like laminating, varnishing or application. The residual solvents can otherwise change the products' specific features

*For good print and converting result we recommend to let the rolls acclimatize in the print/lamination room at least 24 before printing or converting. Too much temperature or humidity deviation between material and room climate can cause layflatness and/or printability issues.*

*Generally, constant material storage conditions of ideally 20°C (+/-2°C) /50% rh (+/- 5%), without too big climate deviations, will support a more robust and stable printing/converting process. For further details, please refer to TB 1.11.*

### 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.