

PRODUCT DATA SHEET

Avery Dennison[®] MPI[™] 2000 and MPI 2001 High Opacity series

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Introduction

Avery Dennison MPI 2000 High Opacity series - MPI 2000 High Opacity and MPI 2001 High Opacity - are gloss white polymeric self-adhesive vinyls with high opacity film properties and a choice of permanent and removable clear adhesives. Because of the film's high opacity properties and clear adhesive, Avery Dennison MPI 2000 HOP series are allowing to cover a full range of flat and slightly curved medium term regular and over posting applications and significantly reducing customer stock inventory (without the need to hold both clear and grey adhesive stock).

Conversion

Avery Dennison MPI 2000 and MPI 2001 High Opacity series are multi-purpose vinyls, developed for use on various wide format printer platforms using solvent-, eco/mild solvent-, UV curable and latex inks.



Face Film

80 micron gloss white polymeric calendered vinyl with high opacity properties



Adhesive

MPI 2000 HOP Permanent, clear acrylic based
MPI 2001 HOP Removable, clear acrylic based



Backing

Polyethylene coated Kraft paper, 140 g/m²



Durability

7 years (unprinted, vertical exposure)



Shelf Life

2 years

To enhance color and protect images against UV radiation and abrasion, Avery Dennison MPI 2000 and MPI 2001 High Opacity series are recommended to be overlaminated with Avery Dennison DOL 2000 series.

Recommendations

- » Medium-term applications on flat and slightly curved substrates
- » Durable promotional and point of sales advertising applications where over posting is required
- » Interior and exterior signs
- » Window decoration (excluding block out applications)
- » Vehicle panel graphics

Features

- » Excellent printability and handling on a wide range of printer platforms
- » High Opacity film allowing to achieve outstanding full colour graphics
- » High Opacity film properties for superior hiding power and over posting applications
- » Clear adhesive enables reducing customer stock inventory covering both standard and over posting applications
- » Excellent durability, outdoor performance and dimensional stability

Physical Characteristics

	Test method ¹	Results
Product		
Caliper, facefilm (micron)	ISO 534	80
Caliper, facefilm + adhesive (micron)	ISO 534	100
Dimensional stability (mm max.)	FINAT FTM 14	0.3
Shelf life (years)	Stored at 22° C/50-55 % RH	2
Durability ² (years)	Unprinted, vertical exposure	7
Opacity		>99%*
* Not a blackout film, opacity on par with MPI 2002/2003		
Removability		up to 2 years**
**Not when applied to: Nitrocellulose paints, ABS, Polystyrene, or certain types of PVC		
Fire classification rating	EN13501-1	B-S1,d0
Adhesive		
Adhesion, initial (N/m)	FINAT FTM-1, stainless steel	MPI 2000 HOP: 540 MPI 2001 HOP: 150
Adhesion, after 24 hours (N/m)	FINAT FTM-1, stainless steel	MPI 2000 HOP: 750 MPI 2001 HOP: 180
Temperature range		
Application temperature (Minimum: °C)		≥10
Service temperature (°C to +°C)		- 40 to + 80°C
Chemical properties³		
Chemical resistance	Mild acids	No effect
Solvent resistance	Mild alkalis	No effect
Solvent resistance	Applied to aluminium	No effect exposed to oils, greases, aliphatic solvents, motor oils, heptane, kerosene and JP-4 fuel.

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.

3) Prolonged immersion in gasoline and similar fluids is not recommended.

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