PRODUCT DATA SHEET

Avery Dennison MPI 2000 and MPI 2001 High Opacity series issued: **02/2017**

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 choice of permanent and removable clear adhesives. Because of 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).

Description

Film	: **MPI 2000/2001 HOP**	80 micron gloss white polymeric calendered vinyl with high opacity properties
Adhesive	: **MPI 2000 HOP** **MPI 2001 HOP**	Permanent, clear acrylic based Removable, clear acrylic based
Backing paper	: **MPI 2000/2001 HOP**	two sides polyethylene coated Kraft paper, 140 g/m^2

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. 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.

Uses

- 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

PRODUCT CHARACTERISTICS — Avery Dennison MPI 2000 HOP series

Physical properties

Features	Test method[1]	Results
Caliper, facefilm	ISO 534	80 micron
MPI 2000 HOP		
Caliper, facefilm + adhesive	ISO 534	110 micron
MPI 2001 HOP		
Caliper, facefilm + adhesive	ISO 534	100 micron
Dimensional stability	FINAT FTM 14	0.3 mm max.
MPI 2000 HOP		
Adhesion, initial	FINAT FTM-1, stainless steel	540 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	750 N/m
MPI 2001 HOP		
Adhesion, initial	FINAT FTM-1, stainless steel	240 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	300 N/m
Opacity		>99%
Removability		up to 2 years*
***Not** when applied to: Nitrocellulose paints, ABS, Polystyrene, certain types of PVC.		
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:	+10 °C
Service temperature:	- 40 °C to + 80 °C

NOTE: Materials have to be properly dried before further processing, for example laminating, varnishing or application. The residual solvents could 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 24h. 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.

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.