

# PRODUCT DATA SHEET

## Avery Dennison® MPI™ 3000 Gloss High Opacity Series

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### Introduction

Avery Dennison Multi Purpose Inkjet 3000 High Opacity series (HOP) films are gloss white, self-adhesive short-term calendared vinyls with high opacity properties, offering a choice between permanent and removable adhesives.

MPI 3000 Gloss HOP series features high opacity (above 99%) films, clear permanent or removable adhesives and good printability with attractive whiteness. This makes it an optimal solution for a wide range of short-term, promotional applications, allowing customers to significantly reduce their inventory.

MPI 3004 HOP Easy Apply, part of MPI 3000 HOP series, is using Easy Apply technology allowing fast and easy bubble free application for effective promotions and short-term flat applications.

### Conversion

MPI 3000 Gloss HOP series films are multi-purpose vinyls, suitable for a variety of wide format inkjet printers using hard solvent, eco/mild solvent, UV-curing or latex inks.

To enhance colour and to protect images against UV radiation and abrasion, it is recommended to protect Avery Dennison MPI 3000 Gloss HOP series films using an overlamine or varnish.

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".

### Recommendations

- Interior & exterior signs, including over posting applications
- Window decoration
- Promotional, point of sale, advertising applications on flat surfaces

### Features

- Excellent printability and handling on selected printers
- Superior whiteness and high opacity properties film - Easy cutting and application on a wide variety of substrates
- High opacity film with clear permanent or removable adhesive constructions allow to cover a wide range of applications and significantly reduce customer inventory



#### Face Film

MPI 3000/3001 HOP 95 micron gloss white high opacity

MPI 3004 HOP EA 95 micron gloss white high opacity



#### Adhesive

MPI 3000 HOP /3004 HOP EA Permanent, clear, acrylic based

MPI 3001 HOP Removable, clear, acrylic based



#### Backing

MPI 3000/3001 Clay coated kraft paper, 125 g/m2

MPI 3004 HOP EA Clay coated kraft paper with air egress channels, 136 g/m2



#### Durability

3 years (unprinted, vertical exposure)



#### Shelf Life

2 years

- MPI 3004 HOP Easy Apply enabling fast and easy application, cover-up performance for effective promotions.
- HP Latex Certified

## Physical Characteristics

	Test method <sup>1</sup>	Results
<b>Product</b>		
Caliper, facefilm (micron)	ISO 534	95
Opacity	ISO 2471	>99% *
* Not a blackout film, opacity on par with MPI 3002/3003		
Dimensional stability (mm max.)	FINAT FTM 14	< 0.8 mm
Shelf life (years)	Stored at 22° C/50-55 % RH	2
Durability <sup>2</sup> (years)	Vertical exposure	3
Fire Classification Rating	EN 13501-1	B-s1, d0
<b>Adhesive</b>		
Adhesion, initial (N/m)	FINAT FTM-1, stainless steel	MPI 3000 HOP 510
		MPI 3001 HOP 140
		MPI 3004 HOP EA 310
Adhesion, after 24 hours (N/m)	FINAT FTM-1, stainless steel	MPI 3000 HOP 875
		MPI 3001 HOP 250
		MPI 3004 HOP EA 465
<b>Temperature range</b>		
Application temperature (Minimum: °C)		≥10 °C
Service temperature (°C to +°C)		- 40 °C to + 80 °C
<b>Chemical properties<sup>3</sup></b>		
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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