

PRODUCT DATA SHEET

Avery Dennison® MPI™ 3003 and MPI 3002 Opaque Series

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Introduction

Avery Dennison Multi Purpose Inkjet MPI 3003 and MPI 3002 Opaque series films are gloss white, self-adhesive monomeric calendered vinyls, offering a choice between grey permanent and removable adhesives for overposting needs.

Description

Film:	80 micron gloss white monomeric calendered vinyl	
Adhesive:	MPI 3002	Removable, grey, acrylic based
	MPI 3003	Permanent, grey, acrylic based
Backing paper:	Clay coated kraft paper, 135 g/m2	

Conversion

MPI 3003 and MPI 3002 Opaque 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 3003/3002 Opaque 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".

Uses

- Interior & exterior signs, where overposting may be required.
- Temporary promotional and point of sale advertising and all applications to flat or regular surfaces where additional opacity may be required.
- Indoor floor marking applications* (MPI 3002).

Features

- Excellent printability and handling on selected printers.
- Easy cutting and application on a wide variety of substrates.
- Excellent price/performance ratio for outdoor promotional graphics.
- Excellent opacity by using grey adhesive system for overposting needs.

* in combination with our DOL 5900 structured overlamine

Physical properties

Features	Test method ¹	Results
Caliper, facefilm Dimensional stability	ISO 534 FINAT FTM 14	80 micron 0.4 mm max.
MPI 3003/3002 Opacity	ISO 2471	> 99 %
MPI 3003 Adhesion, initial Adhesion, ultimate	FINAT FTM-1, stainless steel FINAT FTM-1, stainless steel	480 N/m 760 N/m
MPI 3002 Adhesion, initial Adhesion, ultimate	FINAT FTM-1, stainless steel FINAT FTM-1, stainless steel	300N/m 540 N/m
Removability	<i>Clean removability up to 1 year; Not when applied to : Nitrocellulose paints, ABS, polystyrene, (too) fresh paints and certain types of PVC.</i>	
Flammability Shelf life Durability, unprinted	Stored at 22° C/50-55 % RH Vertical exposure	Self extinguishing 2 years 3 years

Temperature range

Features	Results
Minimum application temperature:	≥ 10° C
Temperature range:	- 40 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 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. In case of any ambiguities or differences between the English and foreign versions of these Conditions, the English version shall be controlling.

Warranty

All Avery Dennison statements, technical information and recommendations are based on tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that purchaser has independently determined the suitability of such products for its purposes.

All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see <http://terms.europe.averydennison.com>

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.