

PRODUCT DATA SHEET

Avery Dennison® MPI™ 7000 Perforated Window Film Series

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Introduction

Avery Dennison MPI 7000 Perforated Window Film series consists of perforated, calendered films with a black backside for use on transparent substrates (i.e. glass). After printing this film allows the full graphic to be seen on one side but still allows viewing through the window from the other side.

Description

Film : **MPI 7101 PWF** 180 micron gloss white calendered vinyl, 2.0mm perforation, 50% open area
MPI 7201 PWF 180 micron gloss white calendered vinyl, 1.5mm perforation, 50% open area
MPI 7301 PWF 140 micron gloss white calendered vinyl, 1.5mm perforation, 40% open area
MPI 7401 PWF 100 micron gloss white calendered vinyl, 1.5mm perforation, 30% open area

Adhesive : Removable, acrylic based

Backing paper : **MPI 7101 PWF** Perforated siliconized paper laminated on stable paper liner
MPI 7201 PWF Perforated siliconized paper laminated on stable paper liner
MPI 7301 PWF Perforated siliconized paper laminated on stable paper liner
MPI 7401 PWF White PET liner

Conversion

Avery Dennison Perforated Window Films are suitable for use on a variety of super-wide format inkjet printers using solvent, eco-/mild solvent, latex or UV-curable ink.

To enhance colour and protect the image against UV radiation and abrasion, Avery Dennison MPI 7000 PWF series is recommended to be overlaminated with Avery Dennison DOL 4000 or DOL 4100.

Avery Dennison DOL 4100 is only recommended for 100% flat windows. Avery Dennison DOL 4000 can be used for either flat or slightly curved windows.

Please consult Avery Dennison Technical Bulletin 5.12 for detailed information on conversion techniques.

Uses

- All types of 1-way vision graphics on buildings glass panels, glass doors
- Continuous, uninterrupted vehicle graphics covering painted and window areas
- Colorful graphics on windows that still provide sufficient interior daylight
- MPI 7101 PWF especially designed for large size graphics on buildings

Features

- Superb lay flatness and machine handling on paper liner
- Full image preview upon printing with paper liner product before application
- Excellent printability
- High dimensional stability
- High adhesion level on glass substrates
- Excellent outdoor durability

PRODUCT CHARACTERISTICS

Avery Dennison® MPI™ 7000 Perforated Window Film Series

Physical properties

Features	Test method ¹	Results
Caliper, facefilm		
MPI 7101 PWF	ISO 543	180 micron
MPI 7201 PWF	ISO 543	180 micron
MPI 7301 PWF	ISO 543	140 micron
MPI 7401 PWF	ISO 543	100 micron
Dimensional stability	FINAT FTM 14	0.5 mm max
Removability		up to 1 year*
*Not when applied to: Nitrocellulose paints, ABS, Polystyrene, screenprinting inks (fresh), certain types of PVC, Polycarbonate or PMMA.		
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability ²	MPI 7101 PWF Vertical exposure	3 years
	MPI 7201 PWF Vertical exposure	3 years
	MPI 7301 PWF Vertical exposure	2 years
	MPI 7401 PWF Vertical exposure	1 year

Temperature range

Features	Results
Minimum application temperature:	≥ 10 °C
Service temperature:	- 20 °C to + 70 °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.

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

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.