

PRODUCT DATA SHEET

Avery Dennison® MPI™ 1105 Speedmaster

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Introduction

MPI™ 1105 Speedmaster is a gloss white, highly conformable self-adhesive cast vinyl. The face film has been especially developed for exceptional print results on all major printer platforms. The highly conformable cast film makes for easy application on rivets and corrugations, without the need for additional application of primers or incisions. Due to the repositionable permanent adhesive the film is easy to position during application. The product comes with Avery Dennison's Easy Apply™ technology ensuring entrapped air can easily be squeegeed out without the need to puncture the film and guaranteeing an extremely smooth finish.

Description

Film: 50 micron gloss white cast vinyl

Adhesive Repositionable permanent, grey tie coat, acrylic based

Backing paper Two side PE coated StaFlat™ Easy Apply liner, 155g/m2

Conversion

Avery Dennison MPI™ 1105 series cast films have been designed to deliver an outstanding and consistent print performance across all major wide format inkjet printer platforms. To enhance colour and to protect images against UV radiation and abrasion, Avery Dennison MPI™ 1105 Speedmaster is recommended to be protected using an overlamine. Avery Dennison DOL 1460 Z Gloss, DOL 1470 Z Lustre or DOL Z 1480 Matt conformable laminates are recommended to protect the graphic and enhance its life span. For information on how to apply Avery Dennison MPI Cast Films, please refer to "Technical Bulletin 5.9. Application methods for Avery Dennison Cast Films".

Uses

- Full vehicle wraps
- Vehicle graphics
- Interior and exterior decorative architectural applications
- All permanent applications requiring high conformability

Features

- Excellent print performance with Latex, UV and Eco-Solvent inks
- Superior 3D conformability* for demanding corrugations
- No additional installation techniques required for preparation of surface with deep corrugations
- Repositionable adhesive for easier positioning during application
- Air Egress feature to avoid air entrapment and wrinkles during application
- High gloss or matt finishes*
- Up to 10 years outdoor unprinted durability, 6 years printed*
- ICS Performance Guarantee

* when used in combination with DOL 1400 Z cast overlaminates



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PRODUCT CHARACTERISTICS

Avery Dennison MPI™ 1105 Speedmaster

Physical properties

Features	Test method ¹	Results
Caliper, facefilm	ISO 534	50 micron
Caliper, facefilm + adhesive	ISO 534	80 micron
Elongation, typical value	DIN 53455	> 200 %
Dimensional stability	FINAT FTM 14	0.3 mm max.
Opacity		> 99%
Adhesion, initial	FINAT FTM-1, stainless steel	250 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	420 N/m
Flammability		Self-extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability, unprinted	Vertical exposure	10 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, like laminating, varnishing or application. The residual solvents can otherwise 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 hours 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 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.

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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, for non-static applications (vehicles). Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of static signs facing south, west, or southwest, in areas of

long high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased.



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