

# PRODUCT DATA SHEET

## Avery Dennison<sup>®</sup> MPI<sup>™</sup> 1105 Speedmaster

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### Introduction

MPI<sup>™</sup> 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<sup>™</sup> technology, ensuring entrapped air can easily be squeegeed out without the need to puncture the film and guaranteeing an extremely smooth finish.

### Conversion

Avery Dennison MPI<sup>™</sup> 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<sup>™</sup> 1105 Speedmaster is recommended to be protected using an overlaminate. 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<sup>™</sup> Cast Films, please refer to "Technical Bulletin 5.9. Application methods for Avery Dennison Cast Films".

To achieve optimal application performance, please make sure that the media is completely dry. In case of graphics printed with solvent inks, printed media should be loosely wound on its core, with a maximum length of 5 meters to ensure sufficient drying.

### Recommendations

- » 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



#### Face Film

50 micron gloss white cast vinyl



#### Adhesive

Repositionable permanent, grey tie coat, acrylic based



#### Backing

Two side PE coated StaFlat<sup>™</sup> Easy Apply liner, 155g/m2



#### Durability

10 years (vertical exposure, unprinted)



#### Shelf Life

2 years

## Physical Characteristics

	Test method <sup>1</sup>	Results
<b>Product</b>		
Caliper, facefilm (micron)	ISO 534	50
Caliper, facefilm + adhesive (micron)	ISO 534	80
Opacity		>99%
Dimensional stability (mm max.)	FINAT FTM 14	0.3
Shelf life (years)	Stored at 22° C/50-55 % RH	2 years
Durability <sup>2</sup> (years)	Unprinted, vertical exposure	10 years
Fire certification	EN13501-1	B-s1, d0
<b>Adhesive</b>		
Elongation (%)	DIN 53455	>200%
Adhesion, initial (N/m)	FINAT FTM-1, stainless steel	250
Adhesion, after 24 hours (N/m)	FINAT FTM-1, stainless steel	420
<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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