

# PRODUCT DATA SHEET

## Avery Dennison® MPI™ 1105 Wrapping series

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### Introduction

Avery Dennison MPI 1105 Wrapping series films are gloss white, premium quality self-adhesive cast vinyls. The films are ultra-conformable and opaque, and offer excellent durability and conformability. Combined with a DOL 1460 Z / 1470 Z / 1480 Z series overlaminate, Avery Dennison MPI 1105 Wrapping films are highly recommended for applications on rivets and corrugations. In addition, MPI 1105 Wrapping films are available with Easy Apply RSTM technology with the air-egress feature and maximum slideability and repositionability.

### Conversion

MPI 1105 Wrapping films are ultra-premium products, delivering maximum durability for a wide range of graphics applications. The films are suitable for use on a variety of super-wide format inkjet printers using solvent, eco solvent, UV or latex ink.

To enhance colour and to protect images against UV radiation and abrasion, it is recommended to protect Avery Dennison MPI 1105 Wrapping films using an overlaminate - Avery Dennison DOL 1460 Z Gloss or Avery Dennison DOL 1480 Z Matt conformable overlaminates.

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". 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".

MPI 1105™ in combination with one of the DOL 1400 Z Series overlaminate finishes, can also be applied in more critical areas such as gas stations or tank trucks. For more information please refer to Technical Bulletin 5.16 - Application of Avery Dennison® MPI 1105™ with contact to petrol

### Recommendations

- Large fleet graphics on flat, curved, riveted and corrugated surfaces
- Vehicle wrapping applications
- Interior & exterior signs
- Durable advertising, requiring clean removal after intended period of use

### Features

- Superb 3D conformability for demanding vehicle and fleet wrapping projects
- Faster, easier installation with Avery Dennison Easy Apply RS technology
- Stunning and consistent image quality on a variety of printers using solvent, eco solvent, UV or latex inks



#### Face Film

50 micron gloss white cast vinyl



#### Adhesive

Permanent, acrylic based with grey tie coat and long term removability properties



#### Backing

MPI 1105 Gloss Two side PE coated StaFlat™ paper, 155g/m2

MPI 1105 EA RS Gloss Two side PE coated StaFlat™ paper, 155g/m2



#### Durability

10 years (unprinted, vertical exposure)



#### Shelf Life

2 years

- Clean long-term removability after years of usage
- Maximum outdoor durability, up to 10 years unprinted
- ICS Performance Guarantee
- HP Latex Certified

## 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	0.4
Shelf life (years)	Stored at 22° C/50-55 % RH	2
Durability <sup>2</sup> (years)	Unprinted, vertical exposure	10
Fire Classification Rating	EN13501-1	B-s1, d0
<b>Adhesive</b>		
Elongation (%)	DIN 53455	200%
Adhesion, initial (N/m)	FINAT FTM-1, stainless steel	MPI 1105: 300
		MPI 1105 EA RS: 280
Adhesion, after 24 hours (N/m)	FINAT FTM-1, stainless steel	MPI 1105: 650
		MPI 1105 EA RS: 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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