

# PRODUCT DATA SHEET

## Avery Dennison® MPI™ 1100 Cast series

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### Introduction

MPI 1100 Cast series consists of gloss white, highly conformable self-adhesive cast vinyls. The face film has been especially developed for exceptional print results on all major printer platforms using Latex, Eco-Solvent, Hard Solvent and UV-Curing inks. MPI 1104 and MPI 1104 Easy apply are recommended for applications 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. For low energy substrates or difficult surfaces, we especially recommend our MPI 1106 Hi-Tack or MPI 1106 Hi-tack Easy Apply.

MPI 1104 EA and MPI 1106 Hi-Tack EA are available with Avery Dennison's Easy Apply™ Technology to ensure entrapped air can easily be rubbed out without the need to puncture the film.

### Conversion

Conversion Avery Dennison MPI 1100 series cast films have been designed to deliver an outstanding & 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 1100 Cast films are recommended to be protected using an overlaminates. If the final graphic is used on corrugated vehicles or substrates, Avery Dennison DOL 1460 Z Gloss or Avery Dennison DOL Z 1480 Matt conformable laminates are recommended to protect the graphic and enhance its life span. Do NOT use wet application methods for Avery Dennison Easy Apply products.

### Recommendations

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

### Features

- Excellent print performance with Latex, UV, Eco-Solvent and hard 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 (MPI 1104 EA/ MPI 1106 HT EA) to avoid air entrapment and wrinkles during application



#### Face Film

50 micron gloss white cast vinyl



#### Adhesive

MPI 1104/MPI 1104 EA Repositionable permanent, grey tie coat, acrylic based

MPI 1106 HT/ MPI 1106 HT EA Permanent, grey tie coat, acrylic based



#### Backing

MPI 1104/MPI 1106 HT : Staflat liner

MPI 1104 EA/ MPI 1106 HT EA : Easy Apply liner



#### Durability

7 years (unprinted, vertical exposure)



#### Shelf Life

2 years

- Adheres to low-energy surfaces (MPI 1106 HT/ MPI 1106 HT EA such as PP and PE)
- High gloss or matt finishes\*
- Up to 7 years outdoor durability
- ICS Performance Guarantee
- HP Latex Certified

\* when used in combination with DOL 1400 Z cast overlaminates

## Physical Characteristics

	Test method <sup>1</sup>	Results
<b>Product</b>		
Caliper, facefilm (micron)	ISO 534	50
Caliper, facefilm + adhesive (micron)	ISO 534	80
Dimensional stability (mm max.)	FINAT FTM 14	0.3 mm
Shelf life (years)	Stored at 22° C/50-55 % RH	2
Durability <sup>2</sup> (years)	Vertical exposure	7
<b>Fire Classification Rating</b>	EN 13501-1	B-S1, D0
<b>Adhesive</b>		
Elongation (%)	DIN 53455	200%
Adhesion, initial (N/m)	FINAT FTM-1, stainless steel	MPI 1104: 400 MPI 1104 EA: 350
Adhesion, initial (N/m)	FINAT FTM-1, LDPE, HDPE, Polypropylene	MPI 1106 HT: 440 MPI 1106 HT EA: 440
Adhesion, after 24 hours (N/m)	FINAT FTM-1, stainless steel	MPI 1104: 600 MPI 1104 EA: 500
Adhesion, after 24 hours (N/m)	FINAT FTM-1, LDPE, HDPE, Polypropylene	MPI 1106 HT: 500 MPI 1106 HT EA: 600
<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>		
Humidity resistance	120 hours exposure	No effect
Corrosion resistance	120 hours exposure	No contribution to corrosion
Water resistance	48 hours immersion	No effect
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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