

# PRODUCT DATA SHEET

## Avery Dennison® MPI™ 1005 Supercast Series

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### Introduction

Avery Dennison MPI 1005 Supercast 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 1400 series overlaminate, Avery Dennison MPI 1005 Supercast films are highly recommended for applications on rivets and corrugations. In addition, MPI 1005 Supercast films are available with Easy Apply RS™ technology with the air-egress feature and maximum slideability and repositionability.

### Description

Film:	50 micron gloss white cast vinyl
Adhesive:	Permanent, grey, acrylic based
Backing paper:	Staflat liner

### Conversion

MPI 1005 Supercast 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 1005 Supercast films using an overlaminate or varnish. If the final graphic is used on corrugated vehicles or substrates, use of Avery Dennison DOL 1460 Gloss or Avery Dennison DOL 1480 Matt conformable overlaminates is recommended.

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".

### Uses

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

### Features

- Unparalleled 3D performance\*, even for the most demanding corrugations
- Stunning print performance and handling on selected printers
- High gloss or matt finishes\*
- Faster, easier installation with Avery Dennison Easy Apply RS technology
- Maximum outdoor durability, up to 10 years unprinted
- ICS Performance Guarantee
- Clean long-term removability after years of usage

**Physical properties**

Features	Test method <sup>1</sup>	Results
Caliper, facefilm	ISO 534	50 micron
Caliper, facefilm + adhesive		
<b>MPI 1005 Supercast</b>	ISO 534	80 micron
<b>MPI 1005 Supercast Easy Apply RS</b>	ISO 534	85 micron
Elongation	DIN 53455	> 100 %
Dimensional stability	FINAT FTM 14	0.4 mm max
Adhesion		
<b>MPI 1005 Supercast</b> initial	FINAT FTM-1, stainless steel	490 N/m
ultimate	FINAT FTM-1, stainless steel	770 N/m
<b>MPI 1005 Supercast</b> initial	FINAT FTM-1, stainless steel	320 N/m
<b>Easy Apply RS</b> ultimate	FINAT FTM-1, stainless steel	700 N/m
Flammability		Self-extinguishing
Shelf life	Stored at 22° C/50-55 % RH	1 years
Durability, unprinted	Vertical exposure	10 years

**Temperature range**

Features	Results
Minimum application temperature:	≥ 7 °C
Service temperature:	- 45 °C to + 80 °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 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 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.