

Avery® MPI™ 1005 Supercast Series

Issued: 02-04-2013

Introduction

Avery 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 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 : | MPI 1005 Supercast | Permanent, grey, acrylic based |
| | MPI 1005 Supercast Easy Apply RS | Permanent, low tack, repositionable, grey, acrylic based |
| Backing paper : | MPI 1005 Supercast | Staflat liner |
| | MPI 1005 Supercast Easy Apply RS | Easy Apply RS 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 MPI 1005 Supercast films using an overlaminate or varnish.

If the final graphic is used on corrugated vehicles or substrates, use of Avery DOL 1460 Gloss or Avery 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® Overlaminates and Avery® Digital Print Media".

For information on how to apply Avery MPI Cast Films, please refer to "Technical Bulletin 5.9. Application methods for Avery 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 Easy Apply RS technology
- Maximum outdoor durability, up to 5 years* printed and 10 years unprinted
- ICS Performance Guarantee
- Clean long-term removability after years of usage

Physical properties

| Features | Test method¹ | Results |
|---|--------------------------------|--------------------|
| Caliper, facefilm | ISO 534 | 50 micron |
| Caliper, facefilm + adhesive | | |
| MPI 1005 Supercast | ISO 534 | 80 micron |
| MPI 1005 Supercast Easy Apply RS | ISO 534 | 85 micron |
| Elongation | DIN 53455 | > 100 % |
| Dimensional stability | FINAT FTM 14 | 0.4 mm max |
| Adhesion | | |
| MPI 1005 Supercast initial | FINAT FTM-1, stainless steel | 490 N/m |
| ultimate | FINAT FTM-1, stainless steel | 770 N/m |
| MPI 1005 Supercast initial | FINAT FTM-1, stainless steel | 320 N/m |
| Easy Apply RS ultimate | FINAT FTM-1, stainless steel | 700 N/m |
| Flammability | | Self-extinguishing |
| Shelf life | Stored at 22° C/50-55 % RH | 1 year |
| 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, 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 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.

Warranty

Avery® 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® 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.

