

Avery® MPI™ 1040 Transparent

Issued: 02-04-2013

Introduction

Avery **Multi-Purpose Inkjet** vinyl 1040 is a gloss transparent highly conformable self-adhesive vinyl. It is suitable for use on a variety of super wide format inkjet printers.

Because of the film's excellent durability and conformability, Avery MPI 1040 Transparent is highly recommended for applications on rivets and corrugations and/or prolonged outdoor use.

Description

Film : 50 micron gloss transparent cast vinyl
Adhesive : clear permanent, acrylic based
Backingpaper : two sides polyethylene coated kraft paper, 140 g/m²

Conversion

Avery MPI 1040 is a multi-purpose vinyl, developed for use on various super wide format printers using solvent, eco-/mild solvent, latex or UV-curable inks.

To enhance colour and protect images against UV radiation and abrasion, Avery MPI 1040 Transparent is recommended to be protected using an overlamine or varnish.

In the event of the final graphic being used on corrugated vehicles or substrates, the use of DOL 1460 or DOL 1480 is recommended.

Please note that overlamination of Avery MPI 1040 Transparent with DOL films will influence the conformability of the total construction.

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

- Vehicle graphics.
- Interior & exterior signs.
- Window decoration.
- Durable promotional and point of sale advertising.
- All permanent applications requiring conformability.

Features

- High transparency.
- Excellent printability and handling on selected printers.
- Outstanding durability and outdoor performance.
- Excellent conformability to irregular substrates.
- Superior high gloss appearance.

Physical properties

Features	Test method¹	Results
Caliper, facefilm	ISO 534	50 micron
Caliper, facefilm + adhesive	ISO 534	80 micron
Elongation	DIN 53455	> 100 %
Dimensional stability	FINAT FTM 14	0.4 mm max
Adhesion, initial	FINAT FTM-1, stainless steel	525 N/m
Adhesion, 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	7 years

Temperature range

Features	Results
Minimum application temperature:	≥ 10 °C
Service temperature:	- 40 °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.

