

Avery Dennison[®] MPI 3401 Opaque

Gloss White Opaque Promotional Vinyl Removable

Features

- Excellent printability on eco-solvent, solvent, latex and UV curable printers
- Grey adhesive provides extra opacity for blackout performance
- Excellent value for money for short term promotional graphics
- Easy cutting and application to a wide variety of substrates
- Good dimensional stability
- Easy and clean removability with heat for up to 1 year

Description



Film: 80 micron gloss white opaque monomeric calendared vinyl



Adhesive: Grey removable acrylic
Removability: Up to 1 year



Backing: One side coated Kraft paper, 125g/m²



Outdoor life: Up to 2 years (unprinted)

Application surface: Flat, simple curves

Conversion*

- | | |
|-----------------------------------------------|---------------------------------------------------------------|
| <input type="checkbox"/> Flat bed cutters | <input type="checkbox"/> Cold overlaminating |
| <input type="checkbox"/> Friction fed cutters | <input checked="" type="checkbox"/> Latex inkjet |
| <input type="checkbox"/> Die cutting | <input checked="" type="checkbox"/> Eco solvent inkjet |
| <input type="checkbox"/> Thermal transfer | <input checked="" type="checkbox"/> Solvent inkjet |
| <input type="checkbox"/> Screen printing | <input checked="" type="checkbox"/> UV cured inkjet |

*Always test with your combination of printer and inks prior to commercial use.

Application

- Avery Dennison Graphics recommend a maximum total ink limit of 270% to ensure optimal performance
- Refer to: Instructional Bulletins (IB) IB 4.14 for Printing and finishing of Digital print graphics
IB 4.06 for Processing Tips for Avery Dennison DOL films to be applied over MPI 3401 Opaque film graphics
IB 1.01, 1.4. 1.18. 1.6 & 1.61 for general surface preparation and flat application methods covering floor and wall graphics

Uses

Avery Dennison MPI 3401 is a gloss white opaque removable promotional vinyl film designed for use in a wide range of promotional applications, with excellent opacity thanks to a grey adhesive system plus short term outdoor durability and value for money.

Common Applications

- Point of purchase
- Outdoor advertising
- Window graphics
- Indoor advertising
- Exhibition
- Flat sided vehicles

Physical characteristics

General

Calliper, face film	ISO 534	80 micron
Opacity	ISO 2471	>99%
Dimensional stability	FINAT FTM 14	0.4 mm max
Adhesion, initial	FINAT FTM-1, stainless steel	200 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	450 N/m
Removability [^]	Smooth OEM painted surfaces	Up to 1 year
Flammability		Self extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability ^{**}	Vertical exposure ^{^^}	Up to 2 years (unprinted)

^{^^} See ICS Performance Guarantee Durability Bulletin for your specific printer and ink combination for further information

[^] Not removable when applied to nitrocellulose paints, fresh screen print inks, ABS, polystyrene & (too) fresh paints and certain types of PVC

Thermal

Application temperature	Minimum: $\geq 10^{\circ}\text{C}$
Temperature range	- 40°C to + 100°C

Chemical

Humidity resistance	120 hours exposure	No effect
Water resistance	48 hours immersion	No effect
Corrosion resistance	120 hours exposure	No contribution to corrosion
Solvent resistance	Applied to aluminium Exposed to oils, greases, aliphatic solvents, motor oils, heptane, kerosene and JP-4 fuel	No effect

Note:

Materials have to be properly dried and cured before further processing, like laminating, varnishing, trimming, contour cutting or application. The residual solvents can otherwise change the products' specific features and properties.

Test Methods

Dimensional stability:

Is measured on a 150 x 150 mm aluminium panel to which a specimen has been applied; 72 hours after application the panel is exposed for 48 hours to + 70°C, after which the shrinkage is measured.

Adhesion:

(FTM-1, FINAT) is measured by peeling a specimen at a 180° angle from a stainless steel or float glass panel, 24 hours after the specimen has been applied under standardised conditions. Initial adhesion is measured 20 minutes after application of the specimen.

Flammability:

A specimen applied to aluminium is subjected to the flame of a gas burner for 15 seconds. The film should stop burning within 15 seconds after removal from the flame.

Temperature range:

A specimen applied to stainless steel is exposed at high and low temperatures and brought back to room temperature. 1 hour after exposure the specimen is examined for any deterioration. Note: Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids, dyes, etc. may eventually cause deterioration.

Important

Information on physical 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 any material for their specific use.

All technical data is subject to change without prior notice.

Warranty

Avery Dennison® 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 guarantee, warranty, or make any representation contrary to the foregoing.

All Avery Dennison® materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

**Durability

Durability is based on exposure conditions in the normal middle European and central North American regions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing north in the southern hemisphere or south in the northern hemisphere; in areas of long high temperature exposure such as northern Australia; in industrially polluted areas or high altitudes, exterior performance will be decreased. Please refer to Avery Dennison Instructional Bulletin 1.3 for definitions and reductions based on the 'Zone System'.

^{*}Compatible with most printer and ink combinations. Test prior to use

^{***}Information unavailable at time of printing.

Chemical Resistance:

All chemical tests are conducted with test panels to which a specimen has been applied. 72 hours after application the panels are immersed in the test fluid for the given test period. 1 hour after removing the panel from the fluid, the specimen is examined for any deterioration.

Corrosion Resistance:

A specimen applied to aluminium is exposed to saline mist (5% salt) at 35°C. After exposure, the film is removed and the panel is examined for traces of corrosion.