

Avery[®] MPI Etchmark

Acid Etched Effect Cast Vinyl Permanent

Features

- Brilliant visual acid etched effect
- Very good printability on all eco-solvent, solvent & UV Curable inkjet printers
- Excellent conversion and handling properties
- Easy cutting and weeding
- Outstanding durability and outdoor life
- Excellent dimensional stability when processed correctly
- Excellent UV, temperature, humidity and salt-spray resistance
- Excellent adhesion

Conversion*

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|--|---|
| ☒ Flat bed cutters | ☒ Cold overlaminating |
| ☒ Friction fed cutters | ☐ Water based inkjet |
| ☒ Die cutting | ☒ Eco Solvent inkjet |
| ☒ Thermal transfer | ☒ Solvent inkjet |
| ☒ Screen printing | ☒ UV Curable inkjet |

Uses

Avery MPI Etchmark is designed to be digitally printed to create the image of acid etched decorations on glass without the use of etching chemicals. It is also suitable for functional and manifestation graphics. Avery MPI Etchmark can be applied to flat surfaces and produces best results when applied to transparent substrates such as glass, acrylic sheeting, and polycarbonate.

Description



Film: 53 micron cast vinyl film with etched effect



Adhesive: Permanent clear acrylic



Backing: One side coated bleached kraft paper



Outdoor life: Up to 5 years unprinted Asia Pacific

Common Applications

- Window graphics
- Architectural signage

Physical characteristics

General

Caliper, facefilm	ISO 534	53 micron
Caliper, facefilm & adhesive	ISO 534	76 micron
Dimensional stability	DIN 30646	0.4 mm max
Tensile Strength	DIN 53455	0.3 to 0.55 kg/cm
Elongation	DIN 53455	100% minimum
Gloss	ISO 2813, 20°	NA
Adhesion, initial	FINAT FTM-1, stainless steel	525 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	630 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22 °C/50-55 % RH	2 years
Accelerated ageing	DIN 53387 1500 hours exposure	No negative impact on film performance
Durability **	Vertical exposure	up to 5 years (unprinted)

Thermal

Application temperature	Minimum: + 7°C
Temperature range	- 46°C to + 82°C

Chemical

Resistant to most petroleum based oils, greases and aliphatic solvents

Resistant to most mild acids, alkalies, and salts

Resistant to humidity and water

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® 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® 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 Asia Pacific region. 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.

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

***Information unavailable at time of printing.