

Avery Dennison[®] MPI 6121 Street Graphics

Rough Surface Micro-Fracture Film

Features

- Patent-pending, micro-fracture technology enables MPI 6121 to conform to irregular surfaces by fracturing and conforming
- By breaking apart it limits water pooling and allows moisture through to further reduce slip hazard in wet conditions
- Excellent print performance on UV curable inkjet printers
- Matte low glare finish for painted appearance without the need for overlamine
- Outstanding outdoor colour durability performance: Up to 6 months for pedestrian traffic and 3 months for vehicle traffic
- Dimensionally stable liner for easy converting and application
- Excellent adhesion to rough surfaces including asphalt, concrete, tiles, pavers and many more.

Conversion[^]

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

[^]Always test with your combination of printer and inks prior to commercial use.

Application

For processing tips and reference guides please refer to:

- Avery Dennison Instructional Bulletin 1.7 Conversion, Application and Removal of MPI 6121 Street Graphics
- Avery Dennison Floor and Street Graphics System Application brochure for external Application Recommendation.

Standards

AS/NZS 4663:2004 - Slip resistance measurement of existing pedestrian surfaces: Appendix A, B, D Classification: W, F, R11

- In order to interpret the classifications, please refer to Standards Australia Handbook 197, An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials, which recommends minimum classifications for a wide variety of locations.
- Test report is available on request. The slip resistance characteristics of the finished graphics will be affected by the surfaces texture or finish, and the inks and ink coverage.

Uses

Avery Dennison MPI 6121 Street Graphics is a unique film for promotional short term advertising opportunities. MPI 6121 Street Graphics offers exceptional value for creating brand images for pedestrian foot traffic. MPI 6121 is also perfect for temporary way finding graphics for parades, festivals, and promotional events, such as trade shows and sporting events.

Description



Film: 45 micron matte cast non-PVC film



Adhesive: Permanent/Removable acrylic



Backing: Two side PE coated StaFlat paper, 145g/m²



Outdoor life: Up to 6 months (Unprinted)

Common Applications

- Street graphics
- Event promotions
- Sporting events
- Shop-front pavement graphics
- Bus shelters
- Train stations

Physical characteristics

General

Calliper, face film	ISO 534	45 micron
Calliper, face film & adhesive	ISO 534	81 micron
Dimensional stability	DIN 30646	0.4 mm max
Tensile Strength	DIN 53455	***
Elongation	DIN 53455	<15%
Gloss	Hunter Gloss, 60°	30
Shelf life	Stored at 22° C/50-55 % RH	1 year
Durability**	Horizontal Exposure	Up to 6 months unprinted
Slip Resistance	Testing Standards	ASTMD2047 UL410 AS/NZS 4663:2004 (Certificates available upon request)

Thermal

Application temperature	Minimum: + 13°C
Temperature range	- 40°C to + 82°C

Chemical

Chemical Solvent Resistance	Resistant to most mild acids, alkalis, and salt solution
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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 with your combination of printer and inks prior to commercial use.

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.

