

Avery Dennison[®] Etched Glass Film

Cast Vinyl

Features

- Brilliant visual etched effect
- Excellent conversion properties on computerised cutters
- Easy cutting and weeding
- Outstanding durability and outdoor life
- Excellent dimensional stability
- Excellent UV, temperature, humidity and salt-spray resistance
- Excellent adhesion

Conversion

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

Recommendations for Application

- Use a high tack application tape.
- To facilitate positioning Avery Dennison Etched Glass Film can be wet applied using 0.5% of neutral detergent added to water.
- Water should be removed with a squeegee and firm hand pressure.
- Before removing application tape, allow the adhesive to build to a sufficient adhesion level (15-45 minutes).

Uses

Avery Dennison Etched Glass Films are designed to create the image of etched decorations on glass without the use of etching chemicals and is also suitable for functional and manifestation graphics. Avery Dennison Etched Glass can be applied to flat surfaces and produces best results when applied to transparent substrates such as glass, acrylic sheeting, and polycarbonate.

Description



Film: 60 micron cast vinyl with etched effect



Adhesive: Permanent acrylic



Backing: One side coated bleached Kraft paper, 140gsm



Outdoor life:
up to 7 years on the outside of external windows

Indoor life:
up to 7 years on the inside of external windows up to 9 years on internal partitions and windows

Common Applications

- Window graphics
- Architectural signage

Formatted: Bullets and Numbering

Physical characteristics

General

| | | |
|--------------------------------|--|--|
| Calliper, face film | ISO 534 | 60 micron |
| Calliper, face film & adhesive | ISO 534 | 90 micron |
| Dimensional stability | DIN 30646 | 0.2 mm max |
| Tensile strength | DIN 53455 | 1.0 kN/m |
| Elongation | DIN 53455 | 25% |
| Gloss | ISO 2813, 20° | 15% |
| Adhesion, initial | FINAT FTM-1, stainless steel | 540 N/m |
| Adhesion, ultimate | FINAT FTM-1, stainless steel | 720 N/m |
| | Glass | 640 N/m |
| | PMMA | 640 N/m |
| | Polycarbonate | 640 N/m |
| Flammability | | Self extinguishing |
| Shelf life | Stored at 22°C/50-55% RH | 2 years |
| Accelerated ageing | SAE J 1960 1500 hours exposure | No negative impact on film performance |
| Durability ** | Vertical exposure | |
| | External applications Applied on the outside of the window | up to 7 years |
| | Applied on the inside of the window exposed to sunlight | up to 7 years |
| | Internal applications Applied to internal partitions and windows with no exposure to direct sunlight | up to 9 years |

Thermal

| | |
|-------------------------|-------------------|
| Application temperature | Minimum: + 10°C |
| Temperature range | - 50°C to + 100°C |

Chemical

| | | |
|---------------------------------|-----------------------|---------------|
| Humidity resistance | 200 hours exposure | No effect |
| Chemical solvent resistance | | |
| Test Fluid | Immersion Time | Effect |
| Water | 24 hours | No effect |
| Detergent (1% solution) | 24 hours | No effect |
| Detergent solution 65°C | 8 hours | No effect |
| Isopropyl alcohol/water (20/80) | 10 minutes | No effect |

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'.

***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.

Avery Dennison Graphics Solutions Asia Pacific

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