Avery Dennison® Frosted Glass Film
Cast Vinyl

Features
• Brilliant visual frosted 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
• Contrasting black liner for easy conversion

Conversion
- Flat bed cutters
- Friction fed cutters
- Die cutting
- Thermal transfer
- Screen printing
- Cold overlaminating
- Estat printing
- Water based inkjet
- Solvent inkjet
- UV Cured inkjet

Custom Colours
A fast colour matching service is offered for projects where specific colours are required. A minimum order quantity of approx 1100m² is required.

Description
- Film: 80 micron cast vinyl film with frosted glass appearance
- 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

Recommendations for Application
• Use a high tack application tape.
• To facilitate positioning Avery Dennison Frosted 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 Frosted Glass films are designed to create the image of frosted decorations on glass and is also suitable for functional and manifestation graphics. Avery Dennison Frosted Glass films can be applied to flat surfaces and produces best results when applied to transparent substrates such as glass, acrylic sheeting, and polycarbonate.
General

Caliper, face film ISO 534 80 micron
Caliper, face film & adhesive ISO 534 110 micron
Dimensional stability DIN 35646 0.2 mm max
Tensile strength DIN 53455 1.0 kN/m
Elongation DIN 53455 25%

Glass 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 up to 7 years outdoor
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 9 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: A specimen is subjected to the effect of moisture, heat and cold for 1000 hours. After exposure, the specimen is examined for any deterioration.

Adhesion: (FTM-1, FINAT) is measured by peeling a specimen at a 90° angle from a stainless steel or float glass panel. 24 hours after the specimen has been applied under standard conditions. Initial adhesion is measured 20 minutes after application of the specimen.

Flammability: A specimen applied to aluminum is subjected to an open 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 norm 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.

Chemical Resistance: All chemical tests are conducted with test panels to which a specimen has been applied. 24 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 aluminum 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

www.graphicsap.averydennison.com