

Avery Dennison® Frosted Glass Film

Cast PVC Film

Features:

- Brilliant visual frosted effect
- Visual Light Transmission (VLT) of 46% for privacy screening
- Excellent conversion properties on plotters
- Easy cutting and weeding
- Outstanding durability and outdoor life
- Excellent dimensional stability
- Excellent UV, temperature, humidity and salt-spray resistance
- Contrasting black liner for easy conversion

Conversion

- | | |
|---|--|
| <input checked="" type="radio"/> Flatbed cutters | <input type="radio"/> Cold overlaminating |
| <input checked="" type="radio"/> Friction fed cutters | <input type="radio"/> Electrostatic printing |
| <input checked="" type="radio"/> Die cutting | <input type="radio"/> Latex inkjet |
| <input type="radio"/> Thermal transfer | <input type="radio"/> Eco solvent inkjet |
| <input type="radio"/> Screen printing | <input type="radio"/> Solvent inkjet |
| <input type="radio"/> Offset printing | <input type="radio"/> UV curable inkjet |

Custom Colours

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

Recommendations for Application

- Use a high tack application tape
- To facilitate positioning Avery Dennison Frosted Glass Film can be wet applied using 2 drops of baby shampoo per 1 litre of 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)
- Refer to IB 1.2 Wet Application Method for more details

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 plus privacy screening. 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.

Description:



Film: 80 micron cast vinyl film with frosted glass finish



Adhesive: Permanent acrylic



Backing: One side coated kraft paper, 140 g/m²



Outdoor life:** Up to 7 years

Common Applications:

- Window graphics
- Architectural signage
- Privacy screening

General

Calliper, face film	ISO 534	80 micron
Calliper, face film & adhesive	ISO 534	110 micron
Gloss	ISO 2813	20° 15%
Visual Light Transmission ¹	Transmission Meter Model # SD2400. Visible 400-700nm	46%
Dimensional stability	DIN 30646	0.2 mm max
Tensile strength	DIN 53455	1 kN/m
Elongation	DIN 53455	25%
Adhesion, initial	FINAT FTM-1, Stainless steel	400 N/m
Adhesion, ultimate	FINAT FTM-1, Stainless steel	480 N/m
	Glass	500 N/m
	PMMA/Polycarbonate	640 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22° C/50% RH	2 years
Expected Durability **	Vertical exposure	Outdoor: 7 years
		Indoor: 15 years

Thermal

Application temperature		Minimum: + 10°C
Temperature range		-40°C to +90°C

Chemical

Humidity resistance	200 hours exposure	No effect
Water resistance	24 hour immersion	No effect
Detergent (1% solution)	24 hour immersion	No effect
Detergent solution 65°C	8 hour immersion	No effect
IPA / Water (20/80)	10 minute immersion	No effect

Testing 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.

**Expected Durability

The expected durability of Avery Dennison films are defined as the expected performance life of the Avery Dennison graphic film(s) within Zone 1 of the Avery Dennison zone system, in outdoor vertical exposure conditions.

The actual performance life will depend on a variety of factors, including selection and preparation of substrate, angle and direction of exposure, application methods, environmental conditions and cleaning/maintenance of the films.

In case of films used in areas of high temperatures or humidity, high altitudes and industrially polluted areas the performance will be further reduced.

Expected Durability and Warranted Period Definitions

Expected durability is the expected period of time defined in the product data sheet, the product should, but is not warranted to, perform satisfactorily when applied in vertical exposure conditions as defined in Instructional Bulletin 1.30. The warranted period as defined in the appropriate ICS Performance Guarantee Bulletin, is the maximum period of time Avery Dennison will warrant the finished products performance in accordance with ICS Performance Guarantee Terms and Conditions 1.0, provided that the film is properly stored, converted and installed in accordance with Avery Dennison guidelines.

¹Visual Light Transmission (VLT)

Samples applied to 6mm clear smooth flat plate float glass. VLT % measurement will change depending on the glass. It's the responsibility of the installer and vehicle or architectural building owner to ensure the applied graphics comply with their specific state or territories traffic and transport regulations for vehicle or building regulation requirements for Architectural installations. VLT 46% was obtained for 6mm clear float glass smooth flat plate on its own (no film).

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.