

PRODUCT DATA SHEET

Avery Dennison® Frosted Glass Window Film

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Introduction

Avery Dennison Frosted Glass Window Film is suitable for decorative and functional graphics on glass windows and screens, doors and mirrors. Avery Dennison Frosted Glass Window Film is especially developed for computer-aided signmaking systems and has a frosted glass appearance. Avery Dennison Frosted Glass Window Film is a quality cast film offering an indoor durability of up to 9 years.

Description

Facefilm: 80 micron cast film with frosted glass appearance
Adhesive: permanent, acrylic based
Backing paper: one side coated bleached kraft paper, 140 g/m²

Conversion

Avery Dennison Frosted Glass Film has been especially developed for conversion on a wide range of computerised signmaking equipment.

Printability

Avery Dennison Frosted Glass Window Film is a good candidate for screen and digital printing. However a print test prior to application is strongly recommended.

Features

- Durability: 15 years (indoor) / 7 years (outdoor)
- Brilliant visual frosted effect
- Excellent conversion properties on computerised signmaking
- Easy cutting and weeding
- Outstanding durability and outdoor life
- Excellent dimensional stability of the face film
- Excellent adhesion
- Product width: 1,23m

Recommendations for use

The Avery Dennison Frosted Glass Window Film is specially developed to create the image of frosted decorations on glass, as well as functional and manifestation graphics. Avery Dennison Frosted Glass Window Film can be applied on flat surfaces, and is best used on transparent surfaces like glass, acrylic sheets and polycarbonate materials.

Recommendations for application

- Flat surfaces only
- High tack application tape, like PM74
- Application to a substrate with the wet method will facilitate positioning
- Addition of 0,5 % of neutral detergent to water will give you the right application fluid
- Water to be removed with a squeegee and firm hand pressure
- Allow the adhesive to build up sufficient adhesion level (this may take 15-45 minutes!) before application tape removal

Physical properties

Avery Dennison® Frosted Glass Window Film

Features	Test method ¹	Results
Caliper, facefilm	ISO 534	80 micron
Caliper, facefilm + adhesive	ISO 534	110 micron
Tensile strength	DIN 53455	1.0 kN/m
Elongation	DIN 53455	25%
Gloss	ISO 2813, 20°	15%
Dimensional stability	FINAT FTM 14	0,2 mm. max
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
Durability ²	90° Vertical exposure:	Indoor: 15 years Outdoor: 7 years

Temperature range

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

Chemical resistance

Features	Test method ¹	Results
Humidity resistance	200h exposure	No effect

Chemical solvent resistance

	Immersion time	
Water	24h	No effect
Detergent (1% solution)	24h	No effect
Detergent solution 65°C	8h	No effect
Isopropyl Alcohol / Water (20/80)	10 min	No effect

NOTE: Materials have to be properly dried before further processing, for example laminating, varnishing or application. The residual solvents could change the products' specific features.

For a good print and converting result we recommend to let the rolls acclimatize in the print/lamination room at least 24 hours before printing or converting. Too much temperature or humidity deviation between material and room climate can cause layflatness and/or printability issues.

Generally, constant material storage conditions of ideally 20°C (+/-2°C) /50% rh (+/- 5%), without too big climate deviations, will support a more robust and stable printing/converting process. For further details, please refer to TB 1.11.

Important

Information on physical and chemical 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 this material to their specific use.

All technical data are subject to change. In case of any ambiguities or differences between the English and foreign versions of these Conditions, the English version shall be controlling.

Warranty

Avery Dennison® branded 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 any guarantee, warranty, or make any representation contrary to the foregoing.

All Avery Dennison® branded materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

1) Test methods

More information about our test methods can be found on our website: www.graphics.averydennison.eu

2) Durability

The durability is based on middle European exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing south; in areas of long high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased.