

Product Data Sheet

Avery Dennison[®] Crystal Glass Window Film

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Introduction

Avery Dennison Crystal Glass Window Film is suitable for decorative and functional graphics on glass windows and screens, doors and mirrors. Avery Dennison Crystal Glass Window Film also functions on other transparent media, like acrylic and polycarbonate sheets.

Conversion

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

Printability

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



Face Film

80 micron calendered vinyl film, polymerically plasticised



Adhesive

permanent, acrylic based



Backing paper

one side coated bleached kraft paper, 135 g/m²



Durability

Up to 5 years outdoors (vertical exposure)



Shelf life

2 years
stored at 22°C/ 50% RH

Recommendations for use

Avery Dennison Crystal Glass Window Film has been developed to create a typical surface finish for decorations on glass, as well as functional and manifestation graphics. Avery Dennison Crystal Glass Window Film should be applied on flat surfaces and performs best on transparent media.

- Flat surfaces only
- 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
- Due to its unique finish, variances in appearance can be visible when the material is oriented in different directions. When utilizing Crystal Glass Window Film, always keep the application direction of the film consistent with the orientation of the film when cut from the roll and applied to the glass.

Features

- Durability: 9 years (indoor) / 5 years (outdoor)
- Translucent crystal-like special effects film
- Homogenous matt face finish
- Excellent conversion properties
- Easy cutting and weeding
- New liner imprint design with square pattern to support manual conversion
- Excellent adhesion
- Product width: 1.23m

Physical Characteristics

Features	Test method ¹	Results
Caliper, facefilm	ISO 534	80 micron
Caliper, facefilm + adhesive	ISO 534	105 micron
Gloss	ISO 2813, 85°	14%
Dimensional stability	DIN 30646	0,20 mm. max
Tensile strength	DIN 53445	1.7 kN/m
Elongation at break	DIN 53445	100%
Adhesion, initial	FINAT FTM-1, stainless steel	480 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel Glass PMMA/Polycarbonate	600 N/m 600 N/m 700 N/m
Flammability		Self-extinguishing
Shelf life	Stored at 22°C/50%RH	2 years
Durability ²	Vertical exposure	Indoor: 9 years Outdoor: 5 years
Temperature range		
Application temperature		Minimum +10°C
Temperature range		-40°C to +90°C
Chemical resistance		
Humidity resistance	200 hours exposure	No effect
Water resistance	24 hours immersion	No effect
Detergent (1% solution)	24 hours immersion	No effect
Detergent solution 65°C	8 hours immersion	No effect
Isopropyl Alcohol / Water (20/80)	10 minutes immersion	No effect

1) Test methods: More information about our test methods can be found on our website.

2) Durability: 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.

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