

# PRODUCT DATA SHEET

## Avery Dennison® Etched Glass Window Film

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### Introduction

Avery Dennison® Etched Glass Window Film is especially developed for computer-aided signmaking systems for decorative and functional graphics on glass windows and screens, doors and mirrors. Avery Dennison® Etched Glass Window Film is a quality cast film offering an indoor durability of up to 15 years.



#### Face Film

60 micron cast film with etched glass appearance



#### Adhesive

permanent, acrylic based



#### Backing

one side coated bleached kraft paper, 135 g/m<sup>2</sup>



#### Durability

Up to 7 years outdoors (vertical exposure)



#### Shelf Life

2 years stored at 22°C/ 50% RH

### Conversion

Avery Dennison® Etched Glass Window Film shows excellent cutting performances on a wide range of computerised sign making equipment.

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

### Recommendations

Avery Dennison® Etched Glass Window Film is especially developed to create the image of etched decoration on glass, without the use of etching chemicals. Avery Dennison® Etched Glass Window Film can be used on flat transparent surfaces like glass, acrylic sheets and polycarbonate materials.

- » Flat surfaces only
- » High tack application tape
- » 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 Avery Dennison® Etched 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: 15 years (indoor) / 7 years (outdoor)
- » Brilliant visual etched effect
- » Excellent conversion properties on computerised signmaking
- » Easy cutting and weeding
- » Excellent dimensional stability and layflatness during use and application
- » New liner imprint design with square pattern to support manual conversion
- » Excellent adhesion and impact strength
- » Product width: 1.23m

## Physical Characteristics

	Test method <sup>1</sup>	Results
<b>Product</b>		
Caliper, facefilm (micron)	ISO 534	60 micron
Caliper, facefilm + adhesive (micron)	ISO 534	90 micron
Gloss (GU)	ISO 2813, 20°	15 %
Dimensional stability (mm max.)	FINAT FTM 14	0,20 mm. max
Shelf life (years)	Stored at 22° C/50-55 % RH	2 years
Durability <sup>2</sup> (years)	Vertical exposure	Indoor: 15 years Outdoor: 7 years
<b>Adhesive</b>		
Tensile strength (kN/m)	DIN 53455	1 kN/m
Elongation (%)	DIN 53455	25 %
Adhesion, initial (N/m)	FINAT FTM-1, stainless steel	400 N/m
Adhesion, after 24 hours (N/m)	FINAT FTM-1, stainless steel	480 N/m
	Glass	500 N/m
	PMMA/Polycarbonate	640 N/m
<b>Temperature range</b>		
Application temperature (Minimum: °C)		Minimum +10°C
Service temperature (°C to +°C)		-40°C to +90°C
<b>Chemical properties<sup>3</sup></b>		
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

## Important

Information on physical and chemical characteristics and values in this document are based upon tests we believe to be reliable and do not constitute a warranty. 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 this document, the English version shall be prevailing and leading.

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

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.

3) Prolonged immersion in gasoline and similar fluids is not recommended.

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