

# 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.

### Description

Facefilm:	60 micron cast film with etched glass appearance
Adhesive:	Permanent, acrylic based
Backing paper:	One side coated bleached kraft paper, 140 g/m <sup>2</sup>

### Conversion

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

### Printability

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.

### Features

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

### Recommendations for use

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.

### 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

## PRODUCT CHARACTERISTICS

## Avery Dennison® Etched Glass Window Film

### Physical properties

Features	Test method <sup>1</sup>	Results
Caliper, facefilm	ISO 534	60 micron
Caliper, facefilm + adhesive	ISO 534	90 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 <sup>2</sup>	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 <sup>1</sup>	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

All Avery Dennison statements, technical information and recommendations are based on tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that purchaser has independently determined the suitability of such products for its purposes.

All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see <http://terms.europe.averydennison.com>.

### 1) Test methods

More information about our test methods can be found on our website: [www.graphics.averydennison.eu](http://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.