

# PRODUCT DATA SHEET

## Avery Dennison® Crystal Glass Window Film

Issued: 11/2024

### 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.

### Recommendations

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 Avery Dennison® 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



#### Face Film

80 micron calendered vinyl film, polymerically plasticised



#### Adhesive

permanent, acrylic based



#### Backing

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



#### Durability

Up to 5 years outdoors (vertical exposure)



#### Shelf Life

2 years stored at 22°C/ 50% RH

## Physical Characteristics

Product	Test method <sup>1</sup>	Results	
Caliper, facefilm (micron)	ISO 534	80	
Caliper, facefilm + adhesive (micron)	ISO 534	105	
Gloss (GU)	ISO 2813, 20°	14	
Dimensional stability (mm max.)	FINAT FTM 14	0.20	
Shelf life (years)	Stored at 22° C/50-55 % RH	2	
Durability <sup>2</sup> (years)	Vertical exposure	Indoor: 9 years	
		Outdoor: 5 years	
Flammability	EN 13501-1	B-s1,d0	
<b>Adhesive</b>			
Tensile strength (kN/m)	DIN 53455	1.7	
Elongation (%)	DIN 53455	100	
Adhesion, initial (N/m)	FINAT FTM-1, stainless steel	480	
Adhesion, after 24 hours (N/m)	FINAT FTM-1, stainless steel	600	
		Glass	600
		PMMA/Polycarbonate	700
<b>Temperature range</b>			
Application temperature (Minimum: °C)		+10	
Service temperature (°C to +°C)		-40 to +90	
<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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