

PRODUCT DATA SHEET

Avery Dennison® Crystal Glass Window Film

Issued: 10/2022

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.

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

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

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

Physical Characteristics

	Test method ¹	Results
Product		
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 ² (years)	Vertical exposure	Indoor: 9 years Outdoor: 5 years
Flammability		Self-extinguishing
Adhesive		
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
Temperature range		
Application temperature (Minimum: °C)		+10
Service temperature (°C to +°C)		-40 to +90
Chemical properties³		
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.

Avery Dennison warrants that its Products meet its specifications. Avery Dennison gives no other express or implied guarantees or warranties with respect to the Products, including, but not limited to, any implied warranties of merchantability, fitness for any particular use and/or non infringement. All Avery Dennison products are sold with the understanding that the purchaser has independently determined the suitability of such products for its purposes. The period of warranty is one (1) year from the date of shipment unless expressly provided otherwise in the product data sheet. All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see <http://terms.europe.averydennison.com>.

Avery Dennison's aggregate liability to Purchaser, whether for negligence, breach of contract, misrepresentation or otherwise, shall in no circumstances exceed the price of the defective, non-conforming, damaged or undelivered Products which give rise to such liability as determined by net price invoices to Purchaser in respect of any occurrence or series of occurrences. In no circumstances shall Avery Dennison be liable to Purchaser for any indirect, incidental or consequential loss, damage or injury, including without limitation, loss of anticipated profits, goodwill, reputation, or losses or expenses resulting from third party claims.

© 2022 Avery Dennison Corporation. All rights reserved. Avery Dennison and all other Avery Dennison brands, this publication, its content, product names and codes are owned by Avery Dennison Corporation. All other brands and product names are trademarks of their respective owners. This publication must not be used, copied or reproduced in whole or in part for any purposes other than marketing by Avery Dennison.