

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.

Description

Facefilm: 80 micron calendered vinyl film, polymerically plasticised
Adhesive: permanent, acrylic based
Backing paper: one side coated bleached kraft paper, 140 g/m²

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.

Features

- Durability: 9 years (indoor) / 5 years (outdoor)
- Translucent crystal-like special effects film
- Homogeneous matt face finish
- Excellent conversion properties
- Easy cutting and weeding
- Good outdoor durability for its class
- Very good indoor durability
- Excellent adhesion
- Product width: 1,23m

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.

Recommendations for application

- 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

PRODUCT CHARACTERISTICS

Avery Dennison® Crystal Glass Window Film

Physical properties

Features

Caliper, facefilm
Caliper, facefilm + adhesive
Tensile strength
Elongation
Gloss
Dimensional stability
Adhesion, initial
Adhesion, ultimate

Test method¹

ISO 534
ISO 534
DIN 53455
DIN 53455
ISO 2813, 85°
FINAT FTM 14
FINAT FTM-1, stainless steel
FINAT FTM-1,
stainless steel
Glass
PMMA
Polycarbonate

Results

80 micron
110 micron
1.7 kN/m
100%
14%
0.2 mm. max
540 N/m
720 N/m
640 N/m
640 N/m
640 N/m
self extinguishing
2 years
Indoor: 9 years
Outdoor: 5 years

Flammability

Shelf life

Durability²

Temperature range

Features

Application temperature
Temperature range

Results

Minimum: +10° C
-50° to +100° C

Chemical resistance

Features

Humidity resistance

Test method¹

200h exposure

Results

No effect

Chemical solvent resistance

Water

Detergent (1% solution)

Detergent solution 65°C

Isopropyl Alcohol / Water (20/80)

Immersion time

24h

24h

8h

10 min

No effect

No effect

No effect

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

Avery Dennison® branded materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied. No salesman, representative or agent is authorised to give any guarantee, warranty, or make any representation contrary to the foregoing.

All Avery Dennison® branded materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

1) Test methods

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