

# PRODUCT DATA SHEET

## Avery Dennison® Frosted Glass Window Film

issued: 05/2015

### Introduction

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

### Description

Facefilm:	80 micron cast film with frosted glass appearance
Adhesive:	permanent, acrylic based
Backing paper:	one side coated bleached kraft paper, 140 g/m <sup>2</sup>

### Conversion

Avery Dennison Frosted Glass Film has been especially developed for conversion on a wide range of computerised signmaking equipment.

### Printability

Avery Dennison Frosted 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 frosted effect
- Excellent conversion properties on computerised signmaking
- Easy cutting and weeding
- Outstanding durability and outdoor life
- Excellent dimensional stability of the face film
- Excellent adhesion
- Product width: 1,23m

### Recommendations for use

The Avery Dennison Frosted Glass Window Film is specially developed to create the image of frosted decorations on glass, as well as functional and manifestation graphics. Avery Dennison Frosted Glass Window Film can be applied on flat surfaces, and is best used on 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

## Physical properties

## Avery Dennison® Frosted Glass Window Film

### Features

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

### Test method<sup>1</sup>

ISO 534  
ISO 534  
DIN 53455  
DIN 53455  
ISO 2813, 20°  
FINAT FTM 14  
FINAT FTM-1, stainless steel  
FINAT FTM-1:  
stainless steel  
Glass  
PMMA  
Polycarbonate

### Results

80 micron  
110 micron  
1.0 kN/m  
25%  
15%  
0,2 mm. max  
540 N/m  
  
720 N/m  
640 N/m  
640 N/m  
640 N/m  
self extinguishing  
2 years  
Indoor: 15 years  
Outdoor: 7 years

## Temperature range

### Features

Application temperature  
Temperature range

### Results

Minimum: +10° C  
-50° to +100° C

## Chemical resistance

### Features

Humidity resistance

### Test method<sup>1</sup>

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

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.