

# Avery Dennison® MPI Dusted Glass Easy Apply RS™\* Polymeric Calendered Window Film

## Features

- Dusted effect translucent film to deliver superb graphics for privacy, decorations or branding on glass and other transparent substrates
- Create eye-catching designs by using inkjet printing, computerised cutting or a combination of both
- Easy Apply RS™ adhesive system with air egress channels for fast bubble and wrinkle free application
- Slides smoothly on surface for exact positioning: RS™ technology stands-off from surface until pressure is applied
- Provides easy, clean and quick application of large graphics without the use of an application fluid.
- Low adhesive tack level allows graphics to be repositioned during application.
- Excellent printability on eco-solvent, solvent & UV curable inkjet printers
- Excellent cutting and weeding properties of large format graphics
- Excellent dimensional stability for the life of the film
- Good outdoor durability and excellent indoor durability
- Excellent adhesion to specified surfaces

## Conversion+

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Flat bed cutters     | <input type="checkbox"/> Cold overlaminating               |
| <input checked="" type="checkbox"/> Friction fed cutters | <input checked="" type="checkbox"/> Electrostatic printing |
| <input checked="" type="checkbox"/> Die cutting          | <input checked="" type="checkbox"/> Latex inkjet           |
| <input type="checkbox"/> Thermal transfer                | <input checked="" type="checkbox"/> Eco solvent inkjet     |
| <input type="checkbox"/> Screen printing                 | <input checked="" type="checkbox"/> Solvent inkjet         |
| <input type="checkbox"/> Offset printing                 | <input checked="" type="checkbox"/> UV curable inkjet      |

^Always test with your combination of printer and inks prior to commercial use.

## Application

- Dry application to flat surfaces only. Do not use water and detergent or a commercial application fluid to position the graphic.
- Due to nature of the adhesive and the special backing paper not all intricate graphics designs and small lettering may be achievable. It is recommended to test the film for cutting of detailed graphics prior to production.
- We recommend the use of high tack application tape.
- For processing tips and reference guides please refer to Avery Dennison Instructional Bulletins:
  - 1.01 Substrate Cleaning and Preparation
  - 1.05 Procedures for Acrylic & Polycarbonate Preparation
  - 1.4 Application Methods for Pressure Sensitive Adhesive Films

## Uses

Avery Dennison MPI Dusted Glass Easy Apply RS™ is a diverse product designed to work well in both digital printing and computer cutting, to create a dusted effect on glass. It is designed for easy dry application on flat surfaces for medium term outdoor signage and indoor graphics, producing best results when applied to transparent substrates such as glass, acrylic sheeting, and polycarbonate.

## Description



**Film:** 80 micron matte polymeric calendered vinyl with dusted effect



**Adhesive:** Permanent acrylic with Easy Apply RS™ Technology



**Backing:** Two side PE coated StaFlat™ paper, 150g/m<sup>2</sup>



**Outdoor life:** 5 years unprinted

**Indoor Life:** 5 years unprinted on the inside of external windows

9 years unprinted on internal windows and partitions

## Common Applications

- Window graphics
- Window decorations and privacy
- Screens, doors & mirrors
- Other transparent surfaces

## Physical characteristics

### General

Calliper, face film	ISO 534	80 micron
Calliper, face film & adhesive	ISO 534	110 micron
Dimensional stability	DIN 30646	0.2 mm max
Tensile Strength	DIN 53455	1.7kN/m
Elongation	DIN 53455	100%
Gloss	ISO 2813, 85°	14%
Adhesion, initial	FINAT FTM-1, Stainless steel	470 N/m
Adhesion, ultimate	FINAT FTM-1, Stainless steel Glass PMMA Polycarbonate	560 N/m 510 N/m 510 N/m 510 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Accelerated ageing	SAE J2527, 1500 hours exposure	No negative impact on film performance
Expected Durability **	90° Vertical exposure ^	Outdoor: Up to 5 years Indoors: Up to 9 years

^ See ICS Performance Guarantee Durability Bulletin for your specific printer and ink combination for further information

### Thermal

Application temperature	Minimum: + 10°C
Temperature range	- 50°C to + 100°C

### Chemical

Humidity resistance	200 hours exposure	No effect
Chemical Solvent Resistance		
<b>Test Fluid:</b>	<b>Immersion Time:</b>	<b>Results:</b>
Water	24 hours	No effect
Detergent (1% solution)	24 hours	No effect
Detergent solution 65°C	8 hours	No effect
Isopropyl Alcohol / Water (20/80)	10 mins	No effect

### Note:

Materials have to be properly dried and cured before further processing, like laminating, varnishing, trimming, contour cutting or application. The residual solvents can otherwise change the products' specific features and properties.

### Test Methods

#### Dimensional stability:

Is measured on a 150 x 150 mm aluminium panel to which a specimen has been applied; 72 hours after application the panel is exposed for 48 hours to + 70°C, after which the shrinkage is measured.

#### Adhesion:

(FTM-1, FINAT) is measured by peeling a specimen at a 180° angle from a stainless steel or float glass panel, 24 hours after the specimen has been applied under standardised conditions. Initial adhesion is measured 20 minutes after application of the specimen.

#### Flammability:

A specimen applied to aluminium is subjected to the flame of a gas burner for 15 seconds. The film should stop burning within 15 seconds after removal from the flame.

#### Temperature range:

A specimen applied to stainless steel is exposed at high and low temperatures and brought back to room temperature. 1 hour after exposure the specimen is examined for any deterioration. Note: Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids, dyes, etc. may eventually cause deterioration.

#### Important

Information on physical 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 any material for their specific use.

All technical data is subject to change without prior notice.

#### Warranty

Avery Dennison® 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 guarantee, warranty, or make any representation contrary to the foregoing.

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

#### \*\*Expected Durability

The expected durability of Avery Dennison films are defined as the expected performance life of the Avery Dennison graphic film(s) within Zone 1 of the Avery Dennison zone system, in outdoor vertical exposure conditions.

The actual performance life will depend on a variety of factors, including selection and preparation of substrate, angle and direction of exposure, application methods, environmental conditions and cleaning/maintenance of the films. In case of films used in areas of high temperatures or humidity, high altitudes and industrially polluted areas the performance will be further reduced.

#### Expected Durability and Warranted Period Definitions

Expected durability is the expected period of time defined in the product data sheet, the product should, but is not warranted to, perform satisfactorily when applied in vertical exposure conditions as defined in Instructional Bulletin 1.30. The warranted period as defined in the appropriate ICS Performance Guarantee Bulletin, is the maximum period of time Avery Dennison will warrant the finished products performance in accordance with ICS Performance Guarantee Terms and Conditions 1.0, provided that the film is properly stored, converted and installed in accordance with Avery Dennison guidelines.

\*Compatible with most printer and ink combinations. Test prior to use.

#### Chemical Resistance:

All chemical tests are conducted with test panels to which a specimen has been applied. 72 hours after application the panels are immersed in the test fluid for the given test period. 1 hour after removing the panel from the fluid, the specimen is examined for any deterioration.

#### Corrosion Resistance:

A specimen applied to aluminium is exposed to saline mist (5% salt) at 35°C. After exposure, the film is removed and the panel is examined for traces of corrosion.