

Commercial Solutions Division

3M™ Anti Graffiti Window Film

AG4 Window Film

Product Bulletin

1. Product Description

3M™ Anti Graffiti AG4 window film is a transparent polyester film with a scratch resistant surface and excellent anti staining properties.

2. Applications

3M™ Anti Graffiti AG4 window film can be applied on the interior of flat glass substrates.

3. Typical Properties

AG4 Window Film has been tested and classified according to EN 45545-2 Behaviour on exposure to fire in rail applications.

These are indicative values for 3M™ Window Film products.

Product construction	
Material base	Transparent polyesters
Adhesive	Pressure sensitive acrylic
Protective liner	Siliconized PET

Typical Performance Properties*			
Film Type	Film Thickness (nominal)	Visible Light Transmission (on 4mm clear glass)	UV Block (on 4mm clear glass)
	Micron (µm)	%	%
AG 4	100	89.5	> 98

Typical Performance Properties							
Film Type	Tensile Strength according to EN 527-2/1B/50		Elongation according to EN 527-2/1B/50		Tear resistance according to EN 34-1/B1		Abrasion resistance according to D1003 and ASTM D1044
	MPa	MPa	%	%	Nmm	Nmm	Delta Haze
	Machine direction	Transverse direction	Machine direction	Transverse direction	Machine direction	Transverse direction	%
AG 4	140	200	140	75	200	90	<5

The values above are the results of illustrative lab test measurements and shall not be considered as a commitment from 3M.

4. User Information

4.1 Shelf Life & Storage (prior to application)

Shelf life is 5 years from the manufacturing date. Material should be stored in its original packaging, laying in a horizontal orientation, away from direct sunlight. Heavy objects should not be placed on top of it to avoid damaging the product. Recommended storage conditions are +21°C and 40 – 50% relative humidity. Avoid extreme temperature ranges in storage.

The shelf life as defined above remains an indicative and maximum data, subject to many external and non-controllable factors. It may never be interpreted as warranty.

4.2 Application

These are indicative values for 3M™ Window Film products.

Recommended substrate	Glass (as described in EN 15755-1)
Recommended surface	Flat to simple curved
Application method	Suitable for wet application or dry, semi-automatic lamination
Application temperature	From +4°C to +45°C
Application guidelines	Use a firm, narrow squeegee e.g. Blue Max 12.7cm. Use both hands to apply consistent, firm pressure across the squeegee blade. Overlap 50% from previous stroke. Remove as much water pass as possible in one pass.
Service temperature	From -40°C to +80°C (not for extended periods of time at the extremes)
Edge sealing	Not necessary
Drying Time	Final adhesion is reached after approximately 8 -10 days at +18°C and dry conditions. Please refer to local instructions for details.

4.3 Maintenance and Cleaning

Use a cleaning agent designed for high quality glass surfaces. The cleaning agent must be wet and non-abrasive with a pH value between 6 and 8 (neither strongly acidic nor strongly alkaline).

5. Remarks

This bulletin provides technical information only.

To request additional product information see address below.

Important Notice

All questions of warranty and liability relating to this product are governed by the terms and conditions of the sale, subject, where applicable, to the prevailing law.

Before using, the user must determine the suitability of the product for its required or intended use, and the user assumes all risk and liability whatsoever in connection therewith.



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