

Technical Bulletin

3M™ Sun Control Window Film — Prestige 70 Exterior

With Prestige Exterior Series Window Films, you can enjoy the benefits of a world-class window film while leaving the beauty of your windows virtually unchanged (Prestige 40 Exterior will add a slight, non-reflective tint to the window). Because Prestige Exterior Series Window Films use no metals, they are not susceptible to corrosion in coastal environments and do not interfere with mobile phone reception.

Other window films that reject heat tend to have high reflectivity, but not Prestige Series Window Films. They offer reflectivity that is actually lower than glass. A final key technical feature of the Prestige line of products is that they were designed to perform best when the sun is high, at the hottest parts of the day, so when the sun is working hardest our films are reflecting the most heat!

Prestige 70 Exterior is a multi-layer and metal-free film based on nanotechnology. It has a uniquely high visual light transmission for a film that has exceptionally high heat reduction capabilities. The film also significantly reduces the amount of UV rays which are the main cause of fading. The patented multi-layer construction and manufacturing process guarantees a high quality and an even longer warranty and life expectancy compared to other exterior film solutions.

Edge sealing of Prestige 70 Exterior is not required on vertical applications, except where moisture can accumulate for an extended time. Edge sealing on horizontal/sloped applications is recommended. A recommended edge sealant is 3M™ Impact Protection Adhesive.

Glass Type	Film Type	SHGC	VLR ex.	VLT	Luminous Efficacy*	TSER	Heat Gain Reduction
Single Pane							
Clear	No Film	0.82	8%	88%	1.1	19%	–
	Prestige 70 Exterior	0.48	7%	71%	1.5	52%	41%
Tinted	No Film	0.63	6%	50%	0.8	37%	–
	Prestige 70 Exterior	0.39	6%	42%	1.1	61%	39%
Double Pane							
Clear	No Film	0.70	15%	78%	1.1	30%	–
	Prestige 70 Exterior	0.39	12%	63%	1.6	61%	45%
Tinted	No Film	0.51	8%	45%	0.9	49%	–
	Prestige 70 Exterior	0.29	7%	38%	1.3	71%	43%

* Luminous Efficacy ratio is the ratio of visible transmittance (VLT) to solar heat gain expressed as a dimensionless fraction. If LSG is greater than 1.0, then the glazing system transmits more light than heat.

** Performance data generated for a typical film on 1/4" glass using applicable industry test methods and standards. Infrared rejection measured from 900nm–1000nm.

- Fast drying and easy to install
- Clear transparent appearance results in minimal aesthetic change to the look of the building
- Excellent solution to reduce solar heat gain, to keep you cooler
- Reduces air conditioning costs
- Helps preserve the appearance of furniture and fabrics

Features (on 1/4" clear glass)

Total Solar Energy reduction	52%
TSER (measured in 60° angle)	62%
IR Reduction**	97%
Glare Reduction	20%
UV Blocked**	99.9%

Structure of the Film

Thickness	2 mils
Colour	Virtually Clear
Material	Multilayer Optical Film
Adhesive	Special Acrylic
Top Coating	Scratch-resistant hard coat

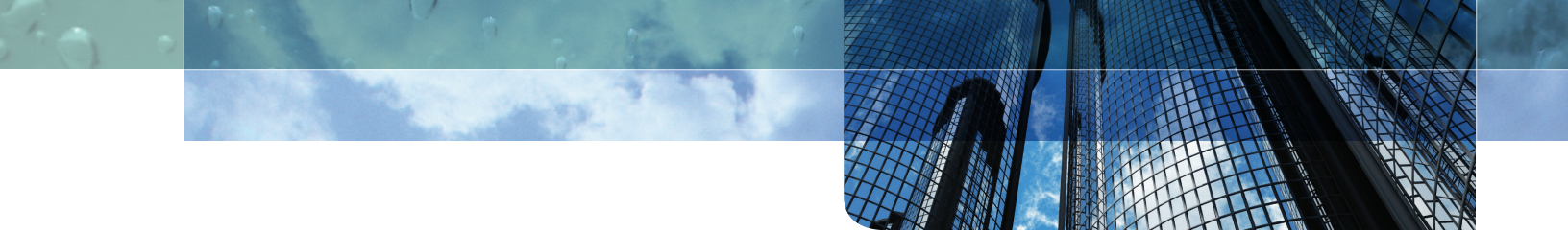
Installation

Prestige Exterior Series Window Films are installed using water and a soap solution. They are faster drying than conventional exterior window films resulting in full adhesion in approximately twenty (20) days at 70°F (in dry conditions).

Cleaning

After thirty (30) days, you may clean 3M™ Sun Control Window Films using normal household cleaning solutions, including ammonia based products, and a soft, lint-free cloth or towel. You may also use a squeegee to clean the films. Abrasive products will scratch or damage the film and should never be used.





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