



**3M** Science.  
Applied to Life.™



**3M™ Sun Control  
Window Films**  
Clearly Superior

# 3M™ Sun Control Films. Heritage. Technology. Warranty.

At 3M, we believe that science is just science until you apply it to life and use it to improve the world. We use science every day to improve lives and solve problems. We have 46 core technology platforms which range from adhesives and films to micro replication, abrasives and advanced materials.

Our teams have the ability and competence to combine and mix these core technologies in creative ways, to create new products that exactly meet the needs of many customers around the world.

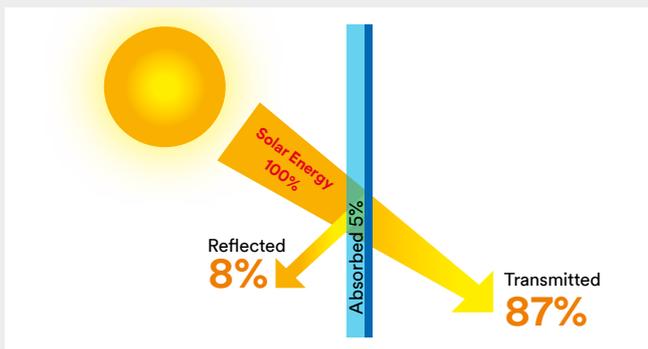
Besides the fact that 3M invented the first reflective window film in 1966, people and businesses all over the world have been trusting in 3M's heritage of window films for decades. In 1998, the first multilayer window film was invented by 3M.

In 2006, with the introduction of the first selective reflecting film, our technology reached new levels applying a co-extrusion manufacturing process. 3M window films combine multiple key technologies including films, adhesives, coating and nanotechnology.

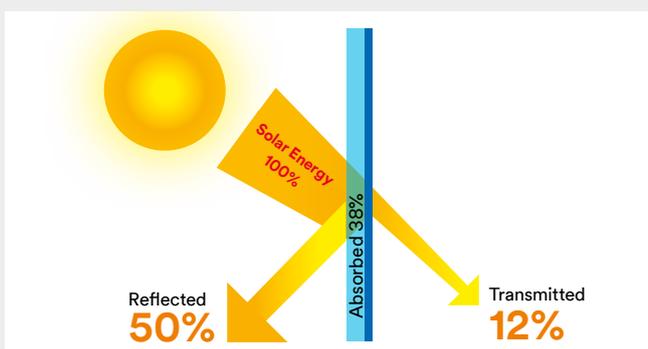
Window films provide various advantages and add many benefits to existing building glazing. From superior heat rejection to maximum protection against fading, from the highest level of work

place comfort to unlimited opportunities for energy savings, 3M window films protect corporate offices, public buildings, transportation infrastructure and hospitals. World class films for world class buildings. Finally the 3M warranty makes the difference. Knowing that a good product is nothing without the right application, 3M has a network of partners we trust. These installers will ensure that the film will be installed to our standards and to your full satisfaction.

## Unprotected glass



## Glass with appropriate window film



Reduce the heat inside your building

Reduce the need for air conditioning  
(prolong HVAC life)

**Reduce your energy bill**

Improve occupant comfort

Improve productivity

Increase profit

Reduce buildings CO<sub>2</sub> footprint

# Tested and re-tested.

All 3M window films have been tested and re-tested according to European and international standards as appropriate, including :

## EN 410

Determination of luminous and solar characteristics of glazing.

## EN 12898

Determination of the emissivity.

## EN 15752-1 and EN 15755-1

Durability and performance testing of polymeric films and polymeric filmed glass.



# Film Properties.

Product	Application	Total Solar Energy Rejected	Visible Light Transmission	Visible Reflection INT	Visible Reflection EXT	G-value	Heat Gain Reduction	UV Block
<b>Prestige</b>								
Prestige 20 Ext.	Exterior	76%	18%	12%	6%	0,24	66%	99,9%
Prestige 40 Ext.	Exterior	71%	37%	7%	13%	0,29	59%	99,9%
Prestige 70 Ext.	Exterior	61%	63%	12%	14%	0,39	45%	99,9%
Prestige 90 Ext.	Exterior	45%	78%	15%	16%	0,56	21%	99,9%
Prestige 70	Interior	44%	62%	15%	13%	0,56	21%	99,9%
<b>Night Vision</b>								
Night Vision 15	Interior	60%	14%	11%	39%	0,40	43%	99%
Night Vision 25	Interior	51%	22%	8%	24%	0,49	29%	99%
Night Vision 35	Interior	45%	32%	8%	19%	0,55	21%	99%
<b>Neutral</b>								
Neutral 35 Ext.	Exterior	62%	36%	18%	19%	0,39	45%	99%
Neutral 35	Interior	49%	32%	19%	24%	0,51	27%	99%
Neutral 70	Interior	36%	62%	12%	16%	0,64	8%	99%
<b>Traditional Series</b>								
Nickel 50	Interior	52%	45%	25%	28%	0,48	31%	99%
Silver 15 Ext.	Exterior	86%	15%	53%	59%	0,14	80%	99%
Silver 35 Ext.	Exterior	72%	33%	33%	36%	0,28	60%	99%
Silver 20	Interior	67%	15%	58%	55%	0,33	53%	99%
Silver 15 Plastic	Interior	83%	15%	n/a	61%	0,14	79%	99%

All values for double pane, 6mm, clear glass. Silver 15 Plastic: Film type on clear PC



## 3M™ Prestige Series

The films of the Prestige Series are 3M's premium solar window films. They utilize a truly unique 3M technology known as a multi-layer optical film, which makes it possible to create a window film with hundreds of layers of non-metallized material in less than the thickness of a Post-it® Note. Each layer is designed to reflect the sun's infrared without compromising on visible light. With Prestige Window Films, you can enjoy the benefits of a world-class window film while leaving the beauty of your windows virtually unchanged.

- Clear, non-reflective appearance maintains the original look of the building
- Highest performance possible without metal
- Significant reduction in air conditioning costs
- Maximum heat retention and maximum light transmission
- No corrosion

## 3M™ Night Vision Series

3M Night Vision Window Film offers protection from the sun's damaging UV rays and controls heat and glare, while inviting warm, natural light into the room and increasing comfort. And, unlike most other sun control films, 3M Night Vision Window Film has a low interior reflectivity that leaves your view clearer than ever, especially at night. Higher external reflectance provides privacy against prying eyes looking in (light condition dependent).

- Ensures clear views, day and night
- Low interior and exterior reflectivity to ensure privacy at night
- Reduces heating and cooling costs
- 3M nano-technology enhances the film's color stability

## 3M™ Traditional Series

The metallised technology of 3M's Traditional Series reflects the sun's rays while allowing optical clarity to be maintained and rejects excess light to reduce glare. These films provide comfort at a great price. Also, depending on lighting conditions, rooms are protected against prying eyes from looking in. This series is available in the colours silver, nickel, amber and in a neutral version.

- Metallised heat gain reduction technology
- Reduces heating and cooling costs
- Keeps occupants cool and comfortable
- Extends the life and vibrancy in furniture, fittings and fabrics

## 3M™ Silver 15 Plastic

3M's Silver 15 Plastic is suitable for some polycarbonate (PC) and acrylic (PMMA) glazing used in buildings. The film is designed for use on the external surface. Its metallised technology reflects the sun's rays while allowing optical clarity to be maintained and rejects excess light to reduce glare. Also, depending on lighting conditions, rooms are protected against prying eyes from looking in.

- Metallised heat gain reduction technology
- Protects plastic surface materials from weathering damage
- Keeps occupants cool and comfortable
- Abrasion resistant surface to maintain good appearance longer

## 3M™ Combination Films

In addition to pure Sun Control Films, 3M offers a range of combination films that provide the protection of a safety film in combination with the capabilities of sun control film.



All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluates the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method or application.

Values presented have been determined by standard test methods and are average values not meant to be used for specification purposes.

All questions of warranty and liability relating to these 3M products are governed by the terms of the respective sale subject, where applicable, to the prevailing law.



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