



**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.

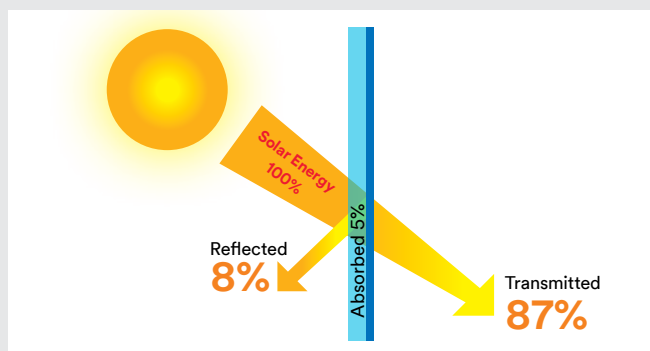
In 2006, with the introduction of the first selective reflecting film, our technology reached new levels applying a co-extrusion manufacturing process. 3M window films combine multiple key technologies including films, adhesives, coating and nano-technology.

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

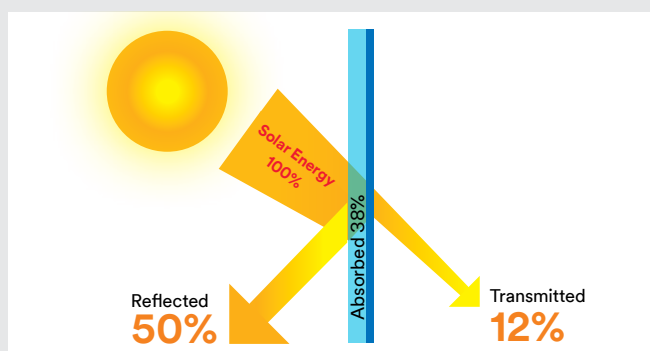
place comfort to unlimited opportunities for energy savings, 3M window films protect corporate offices, public buildings, transportation infrastructure and hospitals. World class films for world class buildings.

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 CO2 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	Shading Coefficient	Visible Light Transmission	Visible Reflection INT	Visible Reflection EXT	G-value	Heat Gain Reduction	UV Block
<b>Prestige</b>								
Prestige 40 Ext.	Exterior	0,33	37%	7%	13%	0,29	59%	99,9%
Prestige 70 Ext.	Exterior	0,44	63%	12%	14%	0,39	45%	99,9%
Prestige 90 Ext.	Exterior	0,64	78%	15%	16%	0,56	21%	99,9%
Prestige 70	Interior	0,64	62%	15%	13%	0,56	21%	99,9%
<b>Night Vision</b>								
Night Vision 15	Interior	0,46	14%	11%	39%	0,40	43%	99%
Night Vision 25	Interior	0,57	22%	8%	24%	0,49	29%	99%
Night Vision 35	Interior	0,64	32%	8%	19%	0,55	21%	99%
<b>Neutral</b>								
Neutral 35 Ext.	Exterior	0,43	40%	18%	12%	0,38	46%	99%
Neutral 35	Interior	0,59	32%	19%	24%	0,51	27%	99%
Neutral 70	Interior	0,74	62%	12%	16%	0,64	8%	99%
<b>Traditional Series</b>								
Nickel 50	Interior	0,55	45%	25%	28%	0,48	31%	99%
Amber 35	Interior	0,37	28%	61%	53%	0,32	54%	99%
<b>Silver</b>								
Silver 15 Ext.	Exterior	0,17	15%	54%	61%	0,14	79%	99%
Silver 35 Ext.	Exterior	0,33	32%	37%	36%	0,29	56%	99%
Silver 20	Interior	0,37	15%	58%	55%	0,33	53%	99%
Silver 35	Interior	0,49	32%	41%	38%	0,43	39%	99%
Silver 15 Plastic	Interior	0,17	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

3M Prestige Sun Control Films are 3M's premium solar window film product. Its technical advantage stems from its multi-layer and metal-free film construction based on nanotechnology. Nano-technology works with materials that are over a thousand times smaller than the width of a hair. It has a unique high visual light transmission, whilst offering high heat reduction capabilities. 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
- Significant reductions of air conditioning costs

## 3M™ Traditional Series

The metalised 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.

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

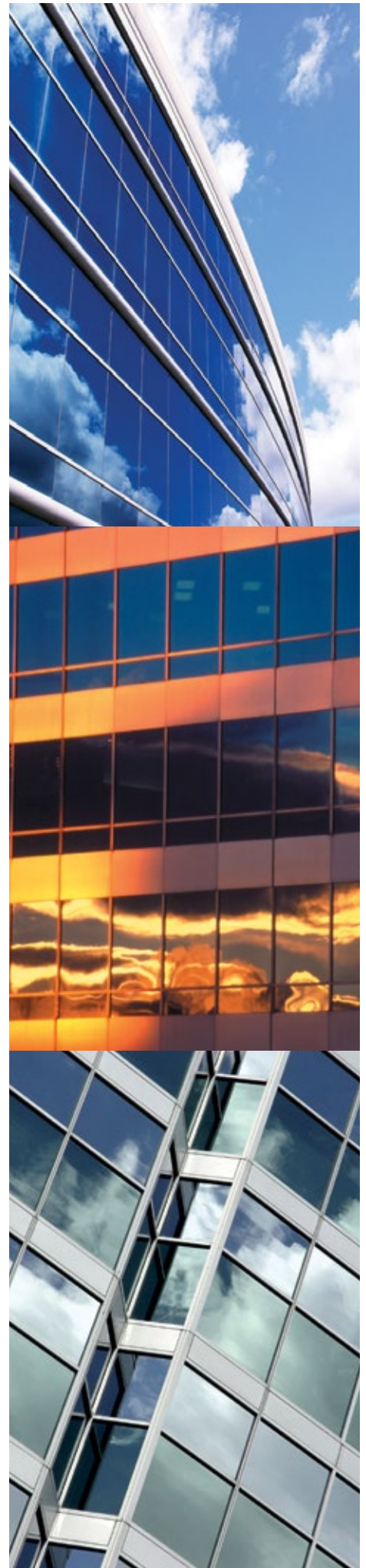
## 3M™ Silver 15 Plastic

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 metalised 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.

- Metalised 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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