

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.

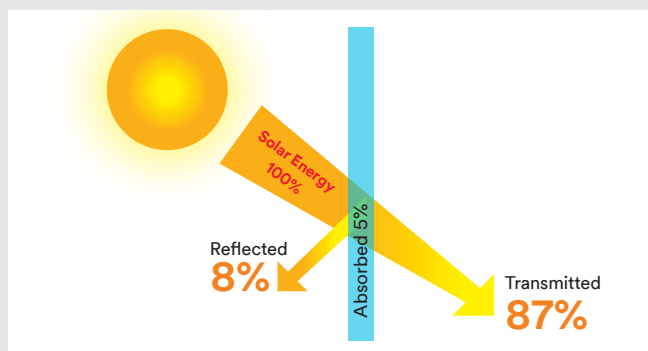
In 2006, with the introduction of the first selective reflecting film, our technology reached new levels applying a co-extrusion manufacturing process. 3M window films combine multiple key technologies including films, adhesives, coating and nano-technology.

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

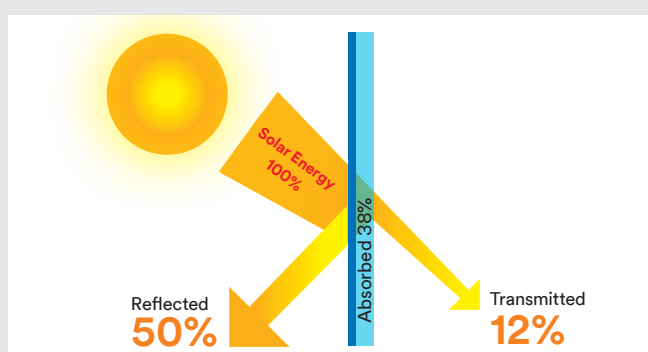
place comfort to unlimited opportunities for energy savings. 3M window films protect corporate offices, public buildings, transportation infrastructure and hospitals. World class films for world class buildings.

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 are trained by 3M in the application of 3M products.

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

Can reduce the building's carbon footprint

Tested and re-tested.

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

EN 410

Determination of luminous and solar characteristics of glazing.

EN 13501-1

Fire classification of construction products and building elements.

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 Light Reflected (interior)	Visible Light Reflected (exterior)	g-Value	UV Block
Prestige							
Prestige 20 Ext.	Exterior	79%	18%	13%	6%	0,21	99,9%
Prestige 40 Ext.	Exterior	72%	38%	13%	7%	0,28	99,9%
Prestige 50 Ext.	Exterior	69%	45%	14%	9%	0,31	99,9%
Prestige 70 Ext.	Exterior	59%	64%	14%	12%	0,41	99,9%
Prestige 90 Ext.	Exterior	42%	79%	14%	14%	0,58	99,9%
Prestige 70	Interior	42%	63%	13%	15%	0,58	99,9%
Prestige 40	Interior	47%	35%	8%	14%	0,53	99,9%
Night Vision							
Night Vision 15	Interior	61%	12%	9%	38%	0,39	99,9%
Night Vision 25	Interior	54%	22%	10%	28%	0,46	99,9%
Night Vision 35	Interior	46%	30%	8%	19%	0,54	99,9%
Neutral							
Neutral 35 Ext.	Exterior	62%	37%	21%	15%	0,38	99,9%
Neutral 35	Interior	48%	32%	19%	24%	0,52	99,9%
Traditional Series							
Nickel 50	Interior	50%	45%	25%	28%	0,50	99,9%
Silver 15 Ext.	Exterior	85%	16%	56%	58%	0,15	99,9%
Silver 35 Ext.	Exterior	71%	34%	36%	33%	0,29	99,9%
Silver 20	Interior	67%	16%	58%	55%	0,33	99,9%
Silver 15 Plastic	Interior	83%	14%	56%	65%	0,17	99,9%

All values for double pane, 6 mm, 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 rejection and maximum light transmission
- No corrosion
- No interference with mobile phone reception

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 reflectivity
- 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

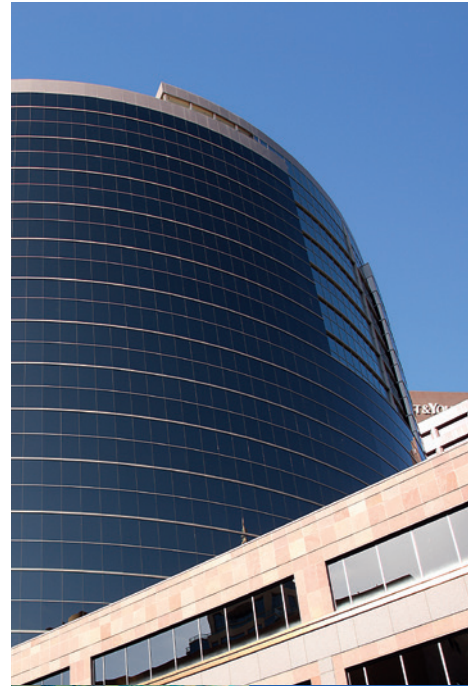
3M™ Silver 15 Plastic

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.



CAUTION: While 3M™ Window Films, when applied in accordance with 3M instructions, may help reduce the risk of injury from flying glass shards under certain conditions and may potentially delay intruders. **However, THESE FILMS DO NOT PREVENT PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH, WINDOW FILMS ARE NOT BULLETPROOF AND NOT DESIGNED TO STOP INTRUDERS.**

CAUTION: Certain 3M™ Window Films help block a percentage of UVA and UVB radiation and may have received The Skin Cancer Foundation Seal of Recommendation. However, the efficacy of these films in protecting against skin cancer has not been tested by 3M. **3M™ WINDOW FILMS DO NOT PREVENT SKIN CANCER.**

IMPORTANT PRODUCT AND APPLICATION LIMITATIONS: Many factors can contribute to potential hazards and damages arising from wind, impact, seismic, explosion, or break and entry incidents. These factors include without limitation the window film selected, type and thickness of glass, building construction, exterior pressure, proximity of impact occurrence, quality of window or door frames, intruder size and strength, and type of tools used to gain entry. Certain 3M™ Window Films require the use of 3M™ Impact Protection Attachment (IPA) Sealant on glass window and door frames for windstorm, break & entry, and explosion mitigation applications and for spontaneous glass breakage applications on single pane tempered glass. The sealant may also be recommended for certain other spontaneous glass breakage, safety glazing, and seismic applications. Always refer to the 3M Technical Data Sheets and 3M Technical Specifications to determine whether these combinations are required. **3M does not warrant fitness for use and you must always consult with security professionals and a 3M Authorized Window Film Dealer prior to selecting any window films to determine suitability for the intended application.**

Technical Information: Technical information, guidance, and other statements provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license to any intellectual property rights is granted or implied with respect to this technical information.

Product Selection and Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment, reviewing all applicable regulations and standards, and reviewing the product label and use instructions. Failure to properly evaluate, select, and use a 3M product in accordance with instructions or to meet all applicable safety regulations may result in injury, sickness, death, and/or harm to property.



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