



3M Science.
Applied to Life.™

**3M™ Automotive
Window Films
Looks Hot. Feels Cool.**

3M™ Automotive 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 multi-layer window film was invented by 3M. In 2006, with the introduction of multilayer films, window film 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 automotive glazing. From heat rejection to stylish tinting, from glass shatter retention to protection against burglary, 3M window films ensure a maximum level of comfort, style and safety for your car.

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.



3M™ Crystalline Series

These patented multilayer and metal free nanotechnology optical films have more than 200 layers in what is less than the thickness of a 3M™ Post-It Note®. This technology is the reason why a virtually clear film can reject more heat than darker films. They provide a high performance combination of high visible light transmission and low visible light reflection with high heat gain reduction capabilities. The films block almost the entire range of UVA and UVB rays which are a main cause of fading and skin damage. All products of this family have the German ABG approval.

- Reduces heat by rejection of up to 60% solar energy
- IR rejection up to 97%
- No signal interference with mobile phone, GPS and radio
- Blocking 99,9% of UV light – Sun protection factor of > 1700
- Maintains vehicle's original appearance
- Enhances vision at night
- Reduction of fading from UV light
- Abrasion resistance to keep the appearance of the film

3M™ Color Stable Series

This patented technology for producing window films incorporates a unique process not found in conventional films. While most other window film companies buy their polyester from someone else, 3M makes its own polyester. During this process, 3M patented a technology for producing its own nano-carbon polyester. This revolutionary and unique process allows for maximum heat rejection without a metal film layer. All products of this family have the German ABG approval.

- Patented nano-carbon polyester films
- Incredible look, outstanding colour stability
- Blocking 99% of UV light – Sun protection factor of > 1000
- Non-metallised: no signal interference with mobile phone, GPS and radio
- Reduces glare
- Never turns purple



3M™ FX HP Series

FX HP Automotive window films offer maximum heat rejection by protecting from the sun's energy and ultraviolet rays. The hybrid technology behind these films blocks more than 99% of UV light providing a sun protection factor of up to 1000. The FX HP Series rejects up to 55% of the total solar energy coming through your windows, giving a "cool effect". FX HP films are available in a variety of tint levels to meet your needs and taste, allowing 5% to 35% of the visible light into your vehicle. All products of this family have the German ABG approval.

- Excellent performance and value
- Reduces heat by rejection of up to 55% solar energy
- Blocking 99% of UV light – Sun protection factor of > 1000
- Reduces glare



3M™ FX ST Series

FX ST Automotive window films are non-metallised. The result is an easy-to-maintain, long-life film that will not interfere with mobile phone, GPS or satellite radio reception. Blocking more than 99% of UV light, FX ST films provide a sun protection factor of up to 1000. The FX ST Series rejects up to 45% of the total solar energy coming through your windows, giving a "cool effect". FX ST films are available in a variety of tint levels to meet your needs and taste, allowing 5% to 50% of the visible light into your vehicle. All products of this family have the German ABG approval.

- Attractive look at a great price
- Non-metallised: no signal interference with mobile phone, GPS and radio



3M™ SAS Series

Our Scotchshield™ Automotive Security Films are designed for the use on the interior surfaces of vehicle windows. They are composed of a transparent and weather stable polyester film, a scratch resistant coating and a strong acrylic adhesive system. SAS films are available in a variety of tint levels to meet your needs and taste, allowing 5% to 90% of the visible light into your vehicle. All products of this family have the German ABG approval.

- Protection from broken and flying glass
- Increased peace of mind with high end tear strength
- Superior protection against forced entry or burglary
- Reduces heat by rejection of up to 43% solar energy
- Blocking 99.9% of UV transmission to reduce fading



Product overview

Series	Product	Thickness [µm]	Film Type	Visible Light Transmission	UV Reduction
Crystalline	CR 40	60	Multilayer Film	40%	100,0%
	CR 70	60	Multilayer Film	69%	100,0%
	CR 90	60	Multilayer Film	91%	100,0%
Color Stable	CS 5	45	Nano-pigmented Polyester Film	10%	99,9%
	CS 20	35	Nano-pigmented Polyester Film	19%	99,9%
	CS 35	35	Nano-pigmented Polyester Film	39%	99,9%
	CS 50	35	Nano-pigmented Polyester Film	52%	99,9%
FX HP	FX HP 5	52	Dyed/ Metallised Polyester Film	3%	99,0%
	FX HP 20	47	Dyed/ Metallised Polyester Film	23%	99,0%
	FX HP 35	47	Dyed/ Metallised Polyester Film	41%	99,0%
FX ST	FX ST 5	45	Dyed Polyester Film	4%	99,0%
	FX ST 20	35	Dyed Polyester Film	23%	99,0%
	FX ST 35	35	Dyed Polyester Film	33%	99,0%
	FX ST 50	35	Dyed Polyester Film	54%	99,0%
Scotchshield™ Automotive Security	SAS 5	100	Dyed Polyester Film	5%	99,0%
	SAS 20	100	Dyed Polyester Film	21%	99,0%
	SAS 35	100	Dyed Polyester Film	33%	99,0%
	SAS 50	100	Dyed Polyester Film	51%	99,0%
	SAS Clear	100	Dyed Polyester Film	89%	99,0%



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