Renewable Energy Division
3M™ Crystalline Automotive Window Film

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- Spectrally selective, multilayer nano-technology
- Optimal visible light transmission and heat rejection performance
- Protect vehicle occupants from uncomfortable heat and glare
- Sun Protection Factor of over 1700
- Reduce reliance on air conditioning reducing fuel consumption

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Description

3M's Crystalline Series is a range of patented multi layer and metal free nano-technology optical films. The films have more than 200 layers in what is less than the thickness of a 3M™ Post-It Note®. This unique technology is the reason a virtually clear film can reject more heat than darker films. They provide a high performance combination of high visible light transmission, low visible light reflectivity, with exceptionally high heat gain reduction capabilities. Additionally, the films block almost the entire range of UVA and UVB rays which are the main cause of fading and skin damage.

- Colour stable, never fade tinting technology
- Non-metalised for no communications or network interference
- Virtually clear delivering almost no aesthetic change to windows
- Solar energy rejection stabilises in-car temperature
- Optimal temperatures make vehicle occupants feel more comfortable

Application

The Crystalline Series is intended for use on the inside surface of vehicle windows. 3M Automotive Window Film is to be professionally applied by skilled, well-trained, 3M authorised installers. Windows can be considered operational after 24 hours.

Physical Properties

Thickness	0.062mm/ 62µm
Colour	Clear to slightly tinted
Film material	Coextruded PET/ coPMMA
Adhesive	Permanent, pressure sensitive acrylic
Top coating	Abrasive resistant hard coat

Cleaning

3M Automotive Window Films may be cleaned 14 days after installation using ordinary automotive window cleaning agents and avoiding the use of abrasive particles. Do not use rough sponges, cloths or brushes. Synthetic sponges, soft wipes or rubber squeegee cleaners are recommended.

Shelf Life

To ensure the longest shelf life possible, be sure to store the film according to the guidelines given in each box. Recommended storage conditions for all films are 21°C and 40 – 50 % relative humidity. Films should be kept in the original packaging and not exposed to heat, light or relative humidity above 50%. When stored according to these recommendations, a shelf life of at least 5 years can be expected.

Film Type on 6mm Glass	Visible Light Transmitted	Visible Light Reflected	Total Solar Energy Rejected	Heat Gain Reduction	UV Rejection	Glare Reduction
No film	89%	8%	19%	N/A	38%	N/A
CR 40	39%	7%	60%	50%	99.9%	50%
CR 70	69%	9%	50%	38%	99.9%	38%
CR 90	86%	10%	34%	21%	99.9%	3%

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