

Product Benefits

- Metal-free design with no electronic interference*
- Blocks up to 99% of the sun's UV rays, the largest single cause of fading

* Will not interfere with cell phones, GPS systems or satellite radio.

Film Characteristics

These are the typical values for unprocessed product. Processing may change the values.

Physical Characteristics

NOTE

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Table A. Physical Characteristics

Characteristic	Value
Material	Polyester
Color	Charcoal
Thickness	Film: 4 mil (101.6 µm) Liner: 0.9 mil (22.9 µm)
Adhesive	Acrylic, pressure sensitive
Adhesive Appearance	Clear
Liner	Polyester

Table B. Film Properties

Characteristic	Value
Tensile Strength	25,000 psi (172 mPa)
Break Strength	100 lbs/in. (45 kg/25 cm)
Elongation at Break	>110%

Typical Solar Properties

NOTE

Auto tint laws vary by state or province. Check local laws or ask your dealer installer for films that meet local tint laws.

Table C. Solar Properties on Auto 75 Glass*

Film	Visible Transmitted Light	Visible Light Reflectance Exterior	Visible Light Reflectance Interior	UV Block	Total Solar Energy Rejected	Glare Reduction
Auto 75 Glass (No film)	73%	7%	7%	67%	42%	N/A
SAS 5	5%	4%	5%	99%	60%	94%
SAS 20	17%	5%	5%	99%	58%	78%
SAS 35	27%	4%	5%	99%	55%	65%
SAS 50	42%	5%	6%	99%	51%	44%
SAS Clear	73%	7%	7%	99%	42%	1%

* Data should be used as a reference tool for net VLT on ¼" (6mm) thick, automotive green glass of 73% VLT, and testing is in accordance to ANSI/NFRC 200 Procedure.

Table D. Solar Properties on 6mm Clear Glass**

Film	Visible Transmitted Light	Visible Light Reflectance Exterior	Visible Light Reflectance Interior	UV Block	Total Solar Energy Rejected	Glare Reduction
6 mm Clear Glass (No film)	89%	9%	8%	34.00%	19%	N/A
SAS 5	6%	5%	5%	99%	43%	94%
SAS 20	20%	5%	5%	98%	41%	78%
SAS 35	32%	5%	5%	98%	38%	64%
SAS 50	49%	6%	6%	98%	33%	44%
SAS Clear	88%	9%	9%	97%	21%	1%

** Data is comparable to current auto industry method using a clear 89% VLT glass, and testing is in accordance to ANSI/NFRC 200 Procedure.

Application Characteristics

NOTE

All installations should be conducted by a professional installer.

Table E. Application Characteristics

Characteristic	Value
Application Method	Wet only
Substrate Types	Glass

Maintenance and Cleaning

- Commercially available neutral glass cleaners can be used on the product as long as they do not contain any abrasives.
- Do NOT affix tapes, suction, cups, stickers, etc. to the window film surface.
- Do NOT use knives, scrapers, brushes, or abrasive cleaning materials on the window film.
- Do NOT rub vigorously or apply heavy pressure to the window.

Shelf Life and Storage

Shelf Life

The shelf life is an indicative and maximum data, subject to many external and non-controllable factors. It may NEVER be interpreted as a warranty. The 3M recommended shelf life for the film is 5 years.

Storage Conditions

3M recommends storage conditions of 60°F to 85°F (16°C to 30°C), out of sunlight, in the original container, and in a clean and dry area.

Removal

3M recommends using a steamer to aid removal. The correct angle of removal is 90 degrees from the surface of the window.

Health and Safety

Tools and Equipment Usage

When using any equipment, always follow the manufacturer's instructions for safe operation.

Chemicals

When handling any chemical products, read the manufacturers' container labels and the Safety Data Sheets (SDS) for important health, safety, and environmental information.

[Follow this link to obtain SDS sheets for 3M products.](#)

[Follow this link to obtain information about substances of very high concern \(SVHC\) for EU products.](#)

Warranty Information

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, including 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.

CAUTION

While 3M™ Window Films, when applied in accordance with 3M instructions, may help reduce the impact of flying glass shards under certain conditions and potentially delay intruders, these films do not prevent property damage, personal injury, or death. Window films are not bulletproof and not designed to stop intruders. 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.

IMPORTANT STATE OF FLORIDA NOTICE

This product is not approved in the State of Florida for use as hurricane, windstorm, or impact protection from wind-borne debris from a hurricane or windstorm. In compliance with Florida Statute 553.842, this product may not be advertised, sold, offered, provided, distributed, or marketed in the State of Florida as hurricane, windstorm, or impact protection from wind-borne debris from a hurricane or windstorm.

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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Commercial Branding and Transportation

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