## **Understanding key terms**

• TSER — Total Solar Energy Rejection

The percentage of total solar energy rejected by filmed glass. The higher this value, the less solar heat is transmitted.

• VLT — Visible Light Transmitted

The percentage of visible light that passes directly through filmed glass: the higher the number, the lighter the film.

Ultraviolet Rejection

The percentage of ultraviolet (UV) light that is rejected by the filmed glass. UV light contributes to the fading and deterioration of fabrics and leather.

• IRER — Infrared Energy Rejection

The percent of solar infrared energy rejection over the wavelength range from 780–2,500 nm. IRER takes into account the transmitted and absorbed IR energy that will be reradiated into a car. Infrared rays are primarily responsible for the heat you feel when driving.

• IRR — Infrared Rejection

The percentage of solar infrared energy rejection over the wavelength range from 900-1,000 nm.

• Glare Reduction

The percentage by which visible light is reduced by the addition of film.

## Pick the film that suits your needs

Here's a comparison of the solar properties of each film on 6mm clear glass<sup>1</sup>

Product Specs Comparison	3M™ Automotive Window Films Crystalline Series	3M™ Automotive Window Films Ceramic IR Series	3M™ Automotive Window Film XP Series
Heat Rejection	Up to 63% (TSER) and Up to 71% (IRER) and Up to 99% (IRR²)	Up to 63% (TSER) and Up to 63% (IRER) and Up to 95% (IRR²)	Up to 55% (TSER) and Up to 49% (IRER) and Up to 38% (IRR²)
UV Protection	Up to 99.9%	Up to 99.9%	Up to 99.9%
Light Visibility Visible Light Transmittance (VLT)	Very High 21% - 86%	High 6% - 78%	High 5% - 79%
Glare Reduction	Up to 76%	Up to 93%	Up to 95%
Privacy and Security	Available in a range of tint shades	Available in a range of tint shades	Available in a range of tint shades
No Signal Interference	✓	✓	✓
Skin Cancer Foundation's Seal of Recommendation	~	~	
3M Warranty Coverage	✓	✓	✓
Cost	\$\$\$	\$\$	\$

<sup>&</sup>lt;sup>1</sup>Data is comparable to current auto industry method using a clear 89% VLT glass, and testing is in accordance to ANSI/NFRC 200 Procedure.

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<sup>&</sup>lt;sup>2</sup>Measurement is made on film with liner alone (i.e. no glass).