

# XENITHIR®

## CERAMIC FILM SERIES

**XenithIR® Ceramic Film Series** from Solar Gard offers discerning drivers our highest level of driving comfort and solar protection. Through a proprietary technology that leverages the most advanced ceramic materials available today, this new line introduces Solar Gard's coolest interior temperature yet, clear transmission of cellular and other data signals, and a true black hue that enhances the look of every vehicle exterior. Additionally, XenithIR blocks more than 99% of harmful UV rays to shield passengers from skin damage and high-end interior furnishings from premature fading.

### FAST FACTS:

- Next-generation ceramic technology rejects up to 93% of infrared rays\*
- Total Solar Energy Rejection (TSER) of up to 64%
- Blocks more than 99% of harmful UV rays to protect passengers and vehicle interiors
- Signal-friendly construction won't interfere with mobile phones, GPS navigation, satellite radio, and other electronic devices
- Helps keep shattered glass together for increased safety
- Rich black color that complements all exteriors
- Available in a wide range of shades to accommodate any driver's preference and minimize glare

*\* Measured using the Solar Spectrum Transmission Meter*

### WARRANTY:

- Color-stable
- Limited lifetime transferable
- Replacement product and labor
- National dealer network



## PERFORMANCE SPECS:

<b>XenithIR</b>	<b>80</b>	<b>70</b>	<b>55</b>	<b>45</b>	<b>35</b>	<b>30</b>	<b>15</b>	<b>5</b>
% Visible light transmittance	76	67	56	45	38	30	15	5
% Visible light applied to auto glass	64	57	47	38	32	25	13	4
% Total solar energy rejected	45	50	51	56	59	60	63	64
% Total solar energy rejected applied to auto glass	52	55	56	60	62	63	65	66
% Ultraviolet blocked (300 to 380 nanometers)	>99	>99	>99	>99	>99	>99	>99	>99
% Infrared energy rejected (IRER)	61	64	63	65	65	66	65	64
% Selective infrared rejection (SIRR)	82	91	91	91	93	93	93	91
% Glare reduction	15	24	37	49	58	66	83	95
% Visible light reflectance	8	8	7	6	6	6	5	5
Sun Protection Factor	285+	285+	285+	285+	285+	285+	285+	285+

Performance results are calculated using NFRC methodology and LBNL Window software, and are subject to variations within industry standards and only intended for estimating purposes. This data is provided for informational purposes only and subject to normal manufacturing variances.

Performance results based on film applied to a representative automotive glass with a base visible light transmission of 75%. Due to variations in glass performance, these values should not be used to comply with local tinting laws.

## SOLAR ENERGY TECHNICAL DEFINITIONS

### VISIBLE LIGHT TRANSMITTANCE (VLT)

The percent of total visible light that is transmitted through the window film/glass system. The lower the number, the less visible light transmitted.

### TOTAL SOLAR ENERGY REJECTED (TSER)

The percent of total solar energy that is directly reflected and absorbed and radiated outwards. The higher the number, the more total solar energy rejected. Calculated as 1-SHGC (Solar Heat Gain Coefficient).

### ULTRAVIOLET LIGHT BLOCKED

The percent of invisible light blocked between 300 nm and 380 nm. The higher the number, the more ultraviolet light blocked. This light is a primary cause of skin cancer, fading and discoloration of furnishings, and materials. Solar Gard window films block more than 99% of both UVA and UVB.

### INFRARED ENERGY REJECTION (IRER)

The percent of infrared energy (780 nm to 2500 nm) that is directly reflected and absorbed and radiated outwards. Calculated as 1 – SHGC (780 nm to 2500 nm) using Lawrence Berkeley National Laboratory (LBNL) Window software and NFRC 200 solar spectrum from 780 nm to 2500 nm. The higher the number, the more infrared energy is reflected and absorbed and released outwards. IRER is the endorsed calculation method of IWFA.

### SELECTIVE INFRARED REJECTION (SIRR)

The percent of "film only" transmitted infrared energy (780 nm to 1700 nm) measured using the Solar Spectrum Transmission Meter (model # SS2450). The higher the number, the less infrared directly transmitted.

### GLARE REDUCTION

The percent of glare that is reduced by window film/glass system compared to untreated glass. The higher the number, the more glare reduced.

### VISIBLE LIGHT REFLECTANCE

The percent of total visible light that is reflected by the window film/glass system. The lower the number, the less visible light reflected.

[www.solargard.com](http://www.solargard.com)

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