

Saflex™ Evoca™ XIR.SR

Minimize heat. Maximize comfort.



Infrared-reflective interlayers for panoramic sunroof glazing

As panoramic sunroof designs continue to evolve, glazing can play a critical role in vehicle efficiency, passenger comfort and design flexibility. Saflex Evoca XIR.SR interlayer is engineered specifically for large-format roof systems. This new infrared-reflective interlayer provides advanced solar control, maintains a neutral color appearance and offers first-rate lamination compatibility.

Part of the Saflex Evoca platform, XIR.SR enables multifunctional glazing solutions by combining solar management with acoustic damping and color capabilities. This allows automotive OEMs and glass laminators to develop panoramic roof systems that support vehicle comfort, efficiency strategies and advanced design requirements.

Key features and benefits

Optimized solar performance for comfort

- Helps reduce total solar transmittance (T_{ts}) to limit solar heat entering the vehicle cabin
- Supports lower cabin temperatures and improved passenger comfort
- Helps reduce thermal load on interior components

Supports vehicle efficiency goals

- Demonstrates T_{ts} value less than 20% in clear glass configurations when paired with Saflex 52 Dark Granite color family*
- Helps reduce solar heat load entering the vehicle, supporting EV efficiency and range

Designed for panoramic sunroof applications

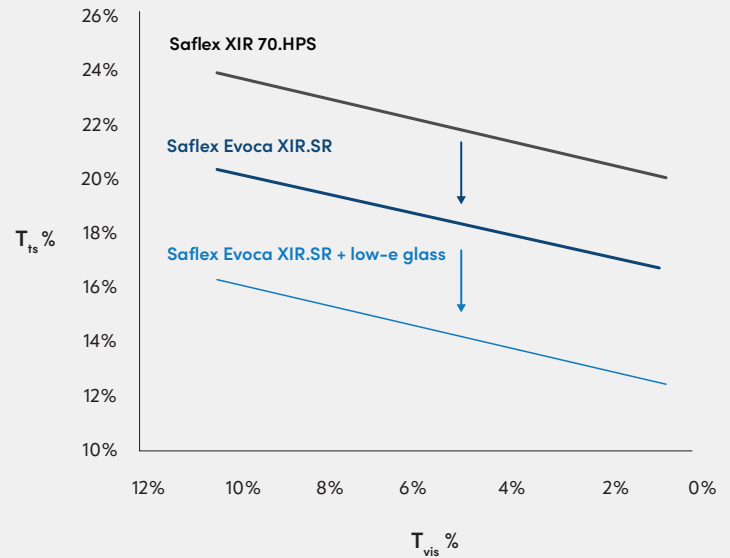
- Maintains a uniform, neutral color across different viewing angles
- Supports a range of visible light transmittance (T_{vis}) levels to meet design and daylighting requirements without sacrificing solar performance
- Compatible with Saflex 52 Dark Granite color family, acoustic and solar interlayers for multifunctional glazing solutions

Ensures manufacturing compatibility and processing reliability

- Constructed for use with standard lamination equipment and processes
- Enables efficient integration into existing automotive glazing production lines
- Provides a globally available IR-reflective alternative when metal-coated glass is not feasible or accessible, meeting OEM requirements with a cost-effective approach

**Performance values are based on Eastman laboratory data. Actual results vary by glass construction, PVB selection and vehicle design. Validate performance in customer-specific applications.*

Achieve T_{ts} < 20% in clear/clear glass configurations
(or < 15% when combined with low-e glass on the interior)



Saflex sunroof configuration tool

Put Saflex Evoca XIR.SR at the center of your glazing design. Compare it with Saflex XIR, Evoca S series, and color selections to evaluate appearance and measured performance. Define your T_{ts} and T_{vis} targets to receive tailored recommendations — or build your own configuration for advanced sunroof design goals.

Design your custom sunroof stack [here](#).

Saflex Evoca XIR.SR property overview

Property	Saflex Evoca XIR.SR properties	Test method
Visible light transmittance (T_{vis})	46%	ISO 13837 (2021)
Visible light reflectance (R_{vis}) ¹	18%	
Solar direct transmittance (T_e)	$\leq 24\%$	
Solar direct reflectance (R_e)	$\geq 43\%$	
Total solar transmittance (T_{ts})	$\leq 32.5\%$	
Transmitted color (a^*/b^*)	-0.5/-2.5	ASTM E308 (D65, Obs 10°)
Reflected color (a^*/b^*)		
0°	-1.5/-1.0	
60°	-2.5/1.0	
Haze	$\leq 2\%$	ASTM D1003

Measurement setup: 2.1-mm clear glass/0.38-mm PVB (Saflex RE11)/XIR.SR film/0.38-mm PVB (Saflex RE11)/2.1-mm clear glass

Typical data for clear glass are [ISO 9050]: T_{vis} 91%; TDS 87%; R_{vis} 8%; Ra^* -0.2; Rb^* -0.6 1. The reflection measurements are performed from the coated side of the film.

Saflex Evoca XIR.SR product offering

Product name	Saflex Evoca XIR.SR
Formulation	BEC2 (XIR.SR bilayer with RE11)
Thickness	0.43 mm (17 ga)
Standard roll width (cm)	110, 115, 120, 125, 130, 140 and 150
Samples	Multiple formats/sizes available; contact your Saflex representative for more details

Visit saflex-vanceva.eastman.com/evoca-xir-sr to learn how Evoca XIR.SR can help transform EVs.

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