

Saflex™ Solar interlayers

saflex™
from Eastman

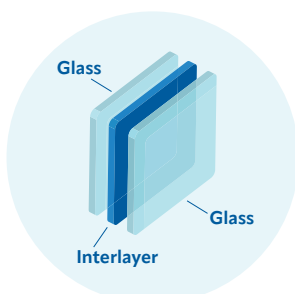
Advanced solar absorbing interlayer technology for laminated glass



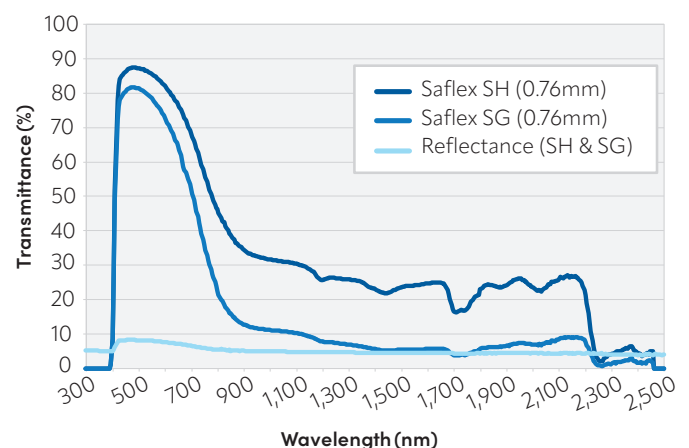
Saflex Solar interlayers offer high visible-light transmittance while absorbing infrared (IR) radiation to enhance solar heat gain performance in laminated glass compared to monolithic clear glass and laminates made with conventional polyvinyl butyral (PVB) interlayer. They have the capability to meet or exceed many regulations for laminated safety glazing when properly selected, laminated and installed.

An ideal solar product eliminates UV and near-infrared (NIR) energy while allowing as much visible light transmittance as possible. Saflex Solar is highly effective at providing high visible-light transmittance, as shown in the table. It is also specifically formulated to provide exceptional durability when exposed to natural weathering.

Saflex Solar is the PVB formulation of choice for applications where strengthened glass is specified to provide additional load or stress resistance (e.g., point-fixed system). Two options are available in the Saflex Solar range: Saflex Solar SG, our highest-performing Solar PVB interlayer, and Saflex Solar SH, which offers a more color-neutral appearance and may be laminated with annealed glass in some applications.



Saflex™ Solar visible light transmittance



Saflex Solar is compatible with other Saflex interlayers, such as Saflex Clear and Saflex Structural, as well as Vanceva™ color interlayer system. In specific configurations, Saflex can be advantageously combined with low-e coatings or robust solar control coatings.

Contact your Eastman technical representative for further information on these advanced usage opportunities.

Saflex Solar product offering

Product nomenclature	Thickness (mm)	Color	Form
SG41	0.76	0000S5 Clear S5	Refrigerated/ interleaved
SH41	0.76	0000S2 Clear S2	

Consult your Saflex representative for width, length and form availability for your region.

Saflex Solar performance properties

Technical properties		Units	SG	SH
Optical	Visible light transmittance	%	76	83
	Visible light reflectance	%	8	7
Solar*	Solar transmittance	%	37	51
	Solar reflectance	%	6	6
	Solar absorptance	%	57	43
	Solar heat gain coefficient (SHGC)	—	0.55	0.65
	Shading coefficient	—	0.63	0.74
	Light to solar gain (LSG)	—	1.40	1.40
Thermal	U factor	W/m ² ·K	5.67	5.67
		BTU/h·ft ² ·°F	1.00	1.00
UV	Transmitted UV	%	<0.01	<0.01
	Damage weighted factor (Tdw)	—	0.21	0.22

* Solar, thermal, optical and color data based on 0.76 mm clear Saflex Solar PVB interlayer with clear nominal 3 mm glass. Calculations performed using OPTIC and WINDOW 70 by Lawrence Berkeley National Laboratory.

Applications

- Curved glass applications
- Low-reflection glazing
- Premium retail showrooms
- External glazed facades (especially in hot regions)
- Digital signage

Architects and designers trust Saflex.

Around the world, architects and designers trust Saflex when performance and safety are their most critical concerns. The reason for their confidence is simple. No matter what the specifications or performance targets, Saflex interlayer technology delivers advanced glazing performance for demanding applications.



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