

Keep it **cool** and **connected**.

Cabin comfort and connectivity with Saflex® Solar Connect PVB interlayers in sensor-compatible and HUD windshields

saflex 
ENHANCE YOUR VISION

New car designs are trending toward windshields with multifunctional capabilities—such as head-up displays (HUD) coupled with acoustic and solar features. Global automotive sensor use is projected to grow as various sensors must function with windshields for new car models. The sensor installation rate will also continue to grow with autonomous vehicles. Glass laminators and automotive OEMs seek solar solutions that provide effective solar protection and are compatible with various sensors—solutions like Saflex® Solar Connect advanced PVB interlayers.

Long known for bringing safety, security, and UV protection to laminated glass, Saflex interlayers deliver much more. With the introduction of Saflex Solar Connect, OEMs can usher in a new era of sensor-friendly, solar-absorbing windshields that enable a multitude of advantages.

Bright reasons to choose Saflex



Heat reduction and cabin comfort



Sensor compatibility



Multiple product formulations



Ease of processing

EASTMAN

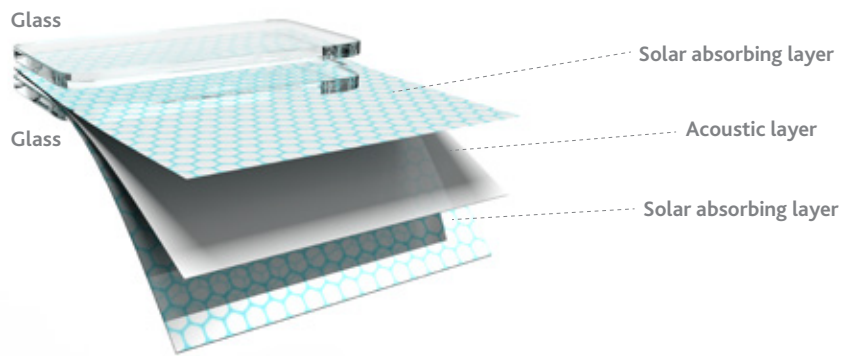
Heat reduction and cabin comfort

Saflex Solar Connect can reduce interior vehicle temperature compared to traditional nonsolar PVB configurations. The interlayer significantly reduces solar infrared (IR) radiation transmitted through a vehicle's glazing without sacrificing occupant visibility.

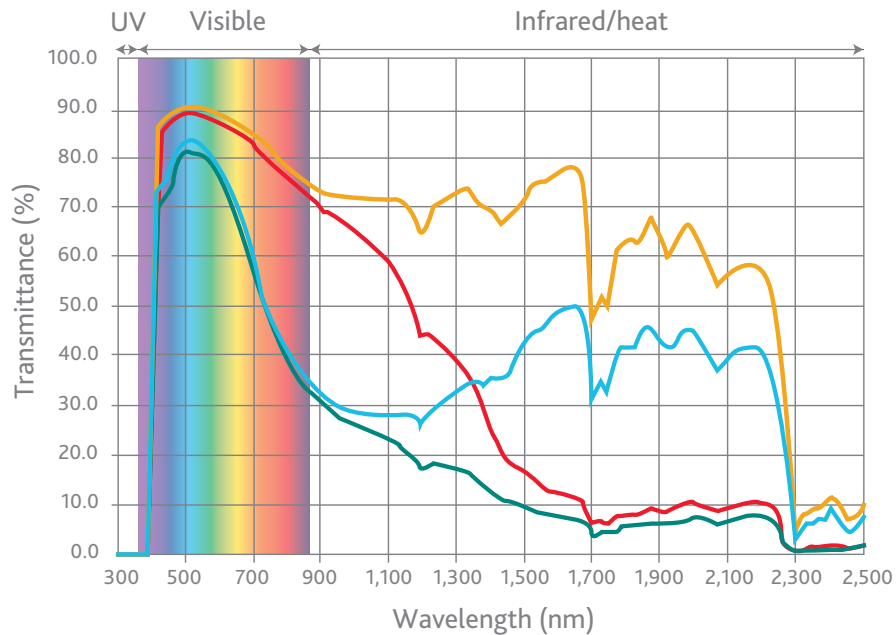
Maintaining a cooler vehicle cabin can also reduce the load on HVAC systems, thereby enhancing overall cabin comfort.

Improvements in energy efficiency become especially important for electric vehicles. Saflex Solar Connect acoustic uses a tri-layer construction which improves sound damping. The skin layers use selective solar absorbing additives to provide heat reduction and seamless solar protection. As with standard Saflex products, Solar Connect also enables ease of processing, proper adhesion, durability, and impact safety performance.

Saflex Solar Connect acoustic tri-layer PVB



Saflex® Solar Connect light transmission performance



- T1 clear glass > Saflex Solar Connect PVB with clear glass
- T1 green glass > Saflex Solar Connect PVB with green glass
- RB41 clear glass > standard PVB with clear glass
- RB41 green glass > standard PVB with green glass

Configuration	Testing method	Visible light transmission (% Tvis)	Direct solar transmission (% Tds)	Total solar transmission (% Tts)
Clear glass/standard PVB/clear glass (benchmark = 2.3-mm clear glass)	ISO 13837	89	75	80
Clear glass/Saflex Solar Connect/clear glass	ISO 13837	87	66	73
Green glass/standard PVB/green glass (benchmark = 2.1-mm green glass)	ISO 13837	79	52	64
Green glass/Saflex Solar Connect/green glass	ISO 13837	78	46	59

Enabling sensor compatibility

The automotive market is putting more demand on windshield capabilities. Compatible with IR sensor devices such as rain sensors and electronic toll collection devices Saflex Solar Connect marries solar control with advanced features for the modern vehicle. In addition, compared to metal-coated solar reflective films, Saflex Solar Connect interlayers do not interfere with mobile device connectivity.



Rain sensor



Toll



Mobile device



ORBIS

Product configurations

Saflex Solar Connect is a drop-in solution for manufacturers looking to add acoustic, solar, and/or HUD features. Contact your Eastman representative for more information on our product offering.

Ease of processing

Saflex Solar Connect is an easy-to-adopt solution for improved windshield solar performance and a drop-in replacement in lamination processes optimized for acoustic PVB.

More reasons to look at Saflex



Improved acoustic comfort



Increased fuel efficiency



Reduced CO₂ emissions



UV protection



Range extension for electric vehicles



Driving performance through material innovation



For more information, contact your Eastman representative or visit automotive.saflex.com.

Trust the experts.

Around the world, automotive engineers trust Eastman when performance and safety are critical concerns. The reason is simple: Saflex interlayer technology delivers advanced glazing performance for demanding applications, meeting exacting specifications and targets. The industry counts on Eastman for technical and development expertise—making Eastman a global leader in PVB interlayers for automotive applications.



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 The results of insight™

Eastman Corporate Headquarters
 P.O. Box 431
 Kingsport, TN 37662-5280 U.S.A.
 U.S.A. and Canada, 800-EASTMAN (800-327-8626)
 Other Locations, +(1) 423-229-2000
www.eastman.com/locations

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