

## SFIR® Films for Interlayers – Solar Control Technology

### Architectural

Advanced solar control glass made with SFIR® solar control film technology, makes it possible to produce high-performing architectural glass, with a high-tech film insert.

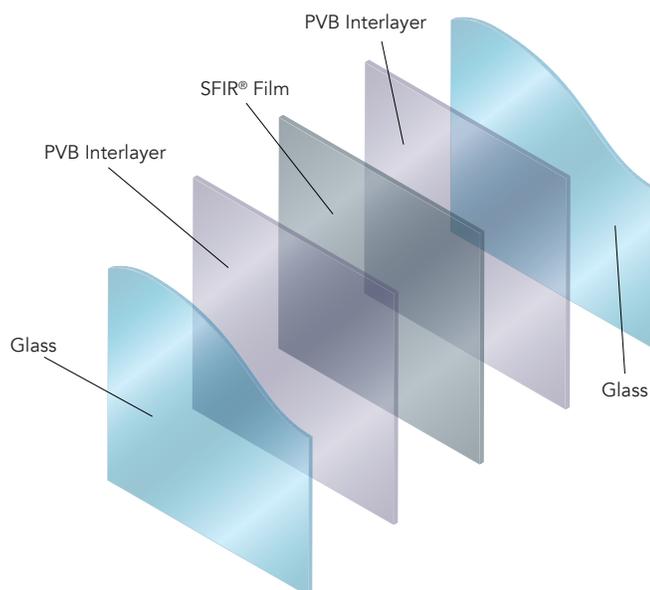
The total glass + film solution makes it possible to reach drastically lower CO<sub>2</sub> emissions, reduced electricity bills, increase comfort, etc. while adding an optically pleasing dimension.

SFIR® film is an optically transparent film, that is fully encapsulated between 2 PVB layers, in laminated architectural glass.

SFIR® film is characterized by a low T<sub>TS</sub> (Total Solar Transmission), combined with a high VLT (Visible Light Transmission) and low VLR (Visible Light Reflectance).

### Architectural Applications:

High-performing laminated windows



### SFIR® Films

Are sealed between two layers of PVB and two sheets of glass, blocking near infrared (NIR) energy and damaging UV rays, combined with high visible transparency and natural look.

SFIR® Films are manufactured with the latest available reactive sputtering technology, allowing high IR rejection with high selectivity.

Parameter	SFIR® 75	SFIR® 70	Test Method
Visible Light Transmission ( $T_{VIS}$ ) <sup>(1)</sup> (Laminated Structure)	≥ 76%	≥ 72%	ASTM E 308 (Illumination A, 2° observer)
Total Solar Transmission ( $T_{TS}$ ) <sup>(1)</sup> (Laminated Structure)	≤ 52%	≤ 48%	ISO 13837
Visible Reflection ( $R_{VIS}$ ) <sup>(1)</sup> (Laminated Structure)	≤ 11.5%	≤ 10%	ISO 9050 (Illumination A, 2° observer)
Thickness (SFIR® Film)	50 µm ± 3.5	50 µm ± 3.5	
Standard Dimensions (SFIR® Film)	60" x 100 LFT Alternative dimensions possible upon request	60" x 100 LFT	

(1) Measurements are performed on the laminated structure:  
 2.1 mm clear float glass  
 0.38 mm PVB  
 SFIR® Film  
 0.38 mm PVB  
 2.1 mm clear float glass

Besides above mentioned standard film solutions, Saint-Gobain has a wide variety of capabilities for darker VLT solutions, allowing to take out costly components in the total solution, and replace them with a more efficient total film solution. Multiple options of performance and color reflection are available on basis of co-development.

**For more information call +1 858 614 1155**

This technical information is intended as a guideline only.

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