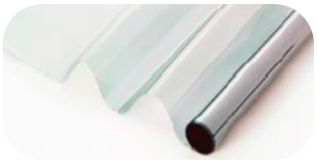
SFI S70 PHOTOCHROMIC FILM

The SFI S70 Photochromic Film is tinted in response to light, not temperature. The film blocks 99% of harmful UV radiation and approximately 85% of IR radiation.



Most indoor heat comes from the absorption of sunlight, while emission plays a smaller role. The key heat-carrying wavelengths are UVA (315 to 400 nm), the main UV band that reaches the Earth and contributes about 5–10% of solar heat; visible light (400 to 700 nm), which contributes around 40–45% when absorbed; and infrared radiation (700 nm to 1 mm), particularly near-infrared (700 to 2500 nm), which delivers roughly 45–50% and is the primary source of indoor solar heating.



Installing the self-tinting solar film is easy and needs no electricity. It is activated by the amount of UV exposure. It is perfect for architectural and automotive applications.

The photochromic film will get darker when exposed to sunlight, particularly the UV radiation, and when the sunlight decreases, the photochromic film will return to its original transparent state. A glass with photochromic film could lower the temperature by 21.6 °F (12 °C), e.g. from 104 °F (40 °C) to 82.4 °F (28 °C).

Block UV	✓
Block IR	✓
Tinting	✓
Mirroring	

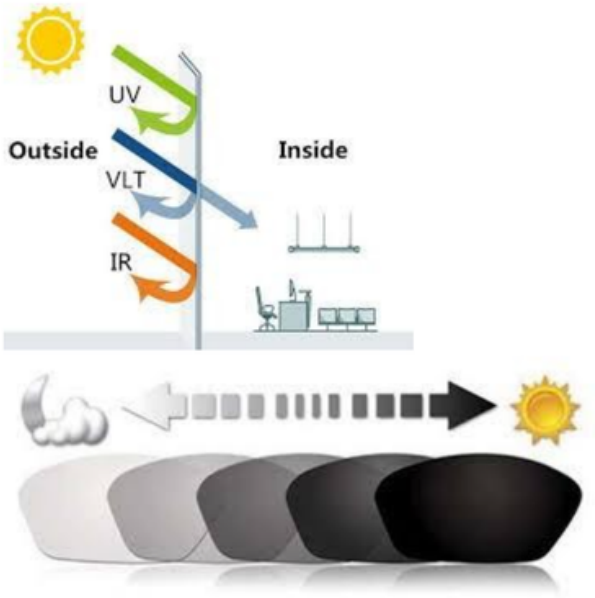
FILM VERSIONS

- Self-adhesive to stick on existing glass
- Lamination type for EVA-based glass lamination

SPECIFICATIONS

- Darkens when exposed to sunlight
- Block UV 99%
- Block IR 85%
- No electricity
- Different VLT ranges
- Colors: blue (adhesive), grey (lamination)

ILLUSTRATION



Format

Item	Adhesive	Lamination
Format	Adhesive	Lamination
Type	Nano Ceramic	Nano Ceramic
Thickness	3 mil (76 µm)	2.5 mil (64 µm)
Color	Blue	Grey
Hardness	> 2H	> 2H

Solar Data

Item	Adhesive	Lamination
VLT	75-25%	75-25%
IRR	85%	85%
UVR	99%	99%
TSER	44-75%	44-75%
SHGC	0.47	0.55
Transition time	< 1 min	< 1 min