

SUPER-CLEAR™ Smart Film Catalogue

Product Description

The use of SUPER-CLEAR™ smart film in interior design continues to gain popularity and is becoming fashionable. Durable and high-quality material has a unique combination of characteristics, such as high transparency and light transmission, security and projection screen capabilities, which determine its relevance.

SUPER-CLEAR™ Film is not only a multi-functional product, but it can also serve as an independent element of the interior, which will perform several tasks: be a partition, alternative to curtains, shading screens or blinds. Being in a transparent state, SUPER-CLEAR™ Film does not allow ultraviolet rays into the room, which contributes to the creation of a healthy microclimate. Reduces heat loss and minimizing the cost of air conditioning.

Privacy Protection : SUPER-CLEAR™ Film can be used on office windows, board room windows or office partitions to create private working and meeting spaces quickly and at a reasonable price.



Projection Screen: Transparent by day, opaque or HD projection screen by night... Whether you are looking for an affordable privacy solution, to add a layer of security, decrease energy costs, or offer an innovative store display, SUPER-CLEAR™ Film is the future of smart glass solutions for retailers.



Safety Protection: SUPER-CLEAR™ Film adds a layer of security to your glass, decreasing the chances of intruders breaking in. The smart film add 0.4mm of very durable PDLC film to your windows, in effect strengthening the glass, without ever compromising your view.



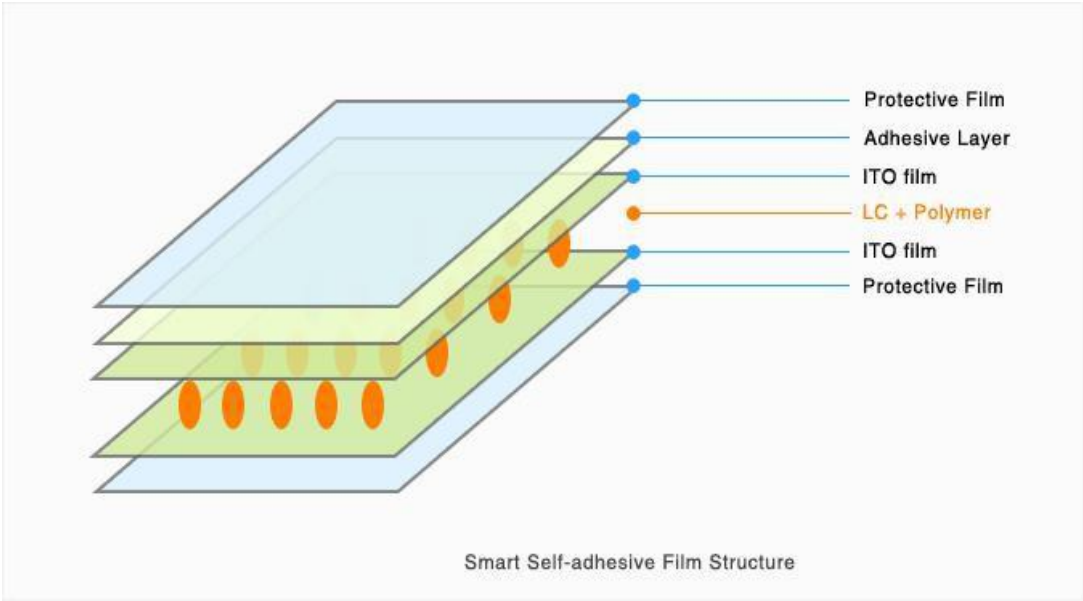
Environmental Protection: Direct exposure to UV and Infrared radiation is not only bad for your floors and furniture but also to your health. SUPER-CLEAR™ Film blocks 98% of harmful UV rays and 95% infrared radiation... Protecting you, your loved ones and your valuables.

New-Gen SUPER-CLEAR™ Film Technical Specifications

Optical Properties	Parallel Light Transmission	ON	more than 90%
		OFF	less than 5%
	Visible Light Transmission	ON	more than 85%
		OFF	more than 55%
	Visual Angle	ON	150 degree
	UV Blocking	On/ off	98%
Electrical Properties	Operating Voltage	On	48 volts A.C.
	Frequency	On	50~60HZ
	Current	On	0.14 (Amp/ m ²)

	Power Consumption	On	5.0 +/- (Watt/m ² /Hour)
	Switching Time	ON to OFF	Tr.2ms
		OFF to ON	Td.1ms
Specification	Thickness	0.4mm	
	Max Size	1500mmx3000mm	
	Color:	White (Frosty) / Clear	
Other index	Working Temperature	-30~70 °C	
	Preserve Temperature	-40~70 °C	
	Life time	100000 hr	

covered with a transparent, ITO coating. Both ITO coatings are connected to a flat electrical bus bar, which is fixed on one of the edges of the glass.



When power is on, the liquid crystals align and the direct visible light is transmitted through the SUPER-CLEAR™ Film and the glass turns clear.



When the SUPER-CLEAR™ Film is switched off from its power supply, the liquid crystals are randomly scattered and diffuse light in all directions. In this state the smart film is translucent and prevents both sides from seeing through the film.

