

POWER ON



POWER OFF



ULTRACLEAR SMART FILM

COMFORT | PRIVACY | ENERGY SAVING

- **Highest Transparency Available In the Market**
- **Lowest Angle Haze**

Designed to retrofit to existing transparent surfaces, self adhesive pdlc privacy glass film from Smart System provides a simple and cost effective alternative to other switchable film technologies. It is manufactured with 1 PDLC layer, 2 ITO films, 2 PET films and a self-adhesive cling layer on one side (peel and stick) which makes it easy to apply to both new and existing glass. A simple ON - OFF mode switches the film from being clear (transparent) to frosted (opaque).

ADVANTAGES:

- Quality and warranty of Smart System
- Over 15 years of combined experience
- ISO 9001 & CE Certification
- High level of transparency – 'haze level' is tested for every single glass panel
- Best quality on the market for back projection application
- Instant and silent change of states between ON and OFF positions
- Low power consumption
- Easy and safe installation
- High light transmission
- Protection against harmful UV radiation
- Eliminates need for shutters, blinds and drapes
- 2 Years Warranty

Amazing Smart Glazing Solutions from Smart System

Smart System offers switchable smart glass for a broad range of commercial and residential applications. We recognize the need to be different from our competitors and we also understand that just being different isn't enough.


We distinguish ourselves within the industry by staying at the forefront of technological developments, and this, along with our extensive knowledge in the smart glass processing industry sets us apart from our competitors.

We maintain a solid focus on providing Innovative Solutions for our clients. By working closely with the engineering team of our principals, we are able to provide switchable smart glass with the best optical and electrical performance on the market. One of our key developmental criteria is to not only lower the film haze straight on, but to lower the haze at wider viewing angles as well. Our switchable smart film provides better visibility compared to our competitors and can have as low as 2.5% Haze.

CONTACT US

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SPECIFICATION DATA

ULTRA CLEAR SMART FILM

PARAMETER DESCRIPTION	MODE	SPECIFICATION		REMARKS
Optical Features	Visible Light Transmittance	ON	>92%	High Transparency
		OFF	< 3%	Excellent Privacy protection
	Parallel Light Transmittance	ON	>89%	
		OFF	<9.8%	
	Haze	ON	<2.79%	Excellent Privacy protection
		OFF	>92%	High Transparency
	Visual Angle	ON	>175 ⁰	Wide Viewing Angle
	UV Blocking	ON	>99%	Anti UV
		OFF	>99%	
	Infra-Red Blocking	ON	>80%	Environmental protection
		OFF	>80%	
	Solar Gain Coefficient	ON	0.79	Environmental protection
OFF		0.06		
Electrical Features	Working Voltage	ON	55V AC	Safe
	Saturation Voltage	ON	<25V	
	Response Time	OFF-ON	<200ms	High Switching Speed
		ON-OFF	<10ms	High Switching Speed
	Power Consumption	ON	5W/M ²	Low consumption Saving energy
OFF		0 Watts when opaque		
Mechanical / Physical Features	Film Thickness	0.38mm-0.6mm		
	Color	Milky White		Gray Color Available
	Max. Size	2.0 x 3.2m (Single Piece)		
	Min. Size	100x150mm		
	Adhesive Bonding Strength	50g/mm		
Environmental Features	Working Temperature	-20 ⁰ C -65 ⁰ C		Heat Resistant Smart Glass operating @ 850C available
	Storage Temperature	-20 ⁰ C -65 ⁰ C		
	Service Life	(ON)> 10 years		Long service life
	Switch Frequency	>80 million times		Long service life
Control Mode	Manual Switch/ Remote Control/ Voice Control/ APP Control			

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