



Smart Film

TPS-22

Smart Switchable Glass

Product Features

Power through transparent, power off light transparent: Instant stealth with fast response time of 1/10 seconds with our Power through Transparent, Power off Light Transparent technology.

Safety: Safe and secure with our laminated glass process, preventing shattered glass in case of impact.

Power saving features: Energy efficient with power saving features, maintaining a bright environment while conserving electricity.

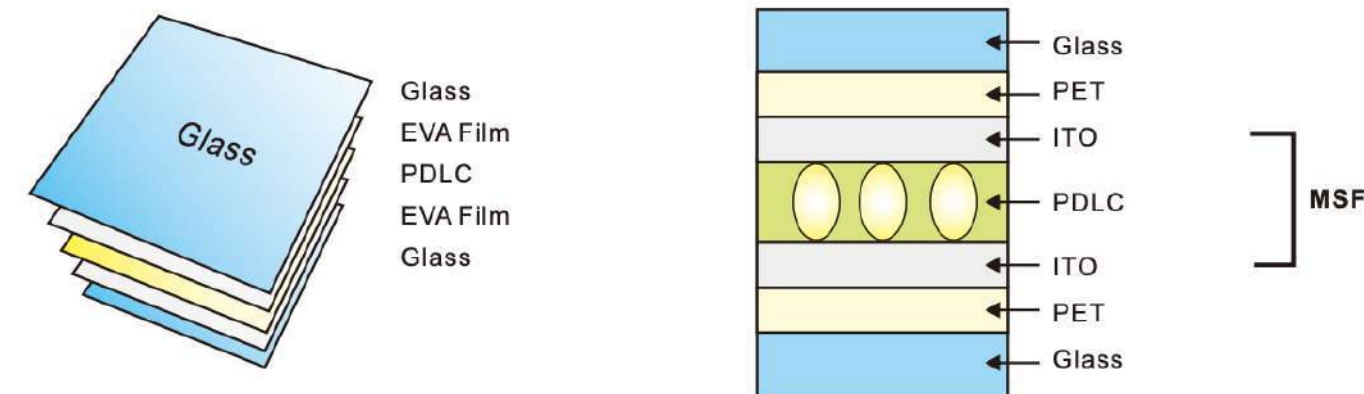
Environmental characteristics: Our optical glass shields over 98% of UV light, safeguarding interior furnishings from fading and aging due to UV exposure. It also protects against health risks caused by excessive ultraviolet radiation.

Sound insulation: Our dimming glass membrane and film effectively block noise up to 38 decibels, outperforming traditional hollow sound insulation glass.

Energy saving: High thermal insulation performance, achieving an energy saving grade of 2 or higher.

Product Structure

Our Liquid Crystal Film, placed between two layers of glass, forms a new special photoelectric glass product through high temperature and pressure bonding. This film features a power on opaque and power off transparent design, functioning as both a traditional glass and an electronic curtain.



Smart Switchable Glass

Product Parameters

Category		Mode	Parameter	
Optical Parameter	Visible Transmittance	Power ON	>78%	
		Power OFF	>55%	
	Parallel Transmittance	Power ON	>66%	
		Power OFF	<1.5%	
	Haze	Power ON	<5%	
		Power OFF	>90%	
Visual Angle	Power ON	>150°		
Electrical Parameter	Working Voltage	Power ON	48V AC	
	Saturation Voltage	Power ON	<20V	
	Response Time	Power OFF - Power ON	<200ms	
		Power ON - Power OFF	<10ms	
	Power	Power ON	<5W/M ²	
Environment Parameter	Working Temperature	-10°C - 65°C		
	Storage Temperature	-20°C - 80°C		
	Life Times	POWER ON > 10 Years		
	Switch Times	>80,000,000		
Physics Parameter				
Glass Thickness	Thickness laminating	Toughened glass	Non toughened glass	Max Size
4+4mm	≈9.5mm	L≤1.5	L≤1.0	≤1.8 x 3.2M
5+5mm	≈11.5mm	L≤2.3	L≤1.8	
6+6mm	≈13.5mm	L≤3.0	L≤2.3	
8+8mm	≈17.5mm	L≤3.15	L≤2.5	
12+12mm	≈26mm	L≤3.15	L≤2.5	

Adhesive Liquid Film

Product Introduction

Introducing STF, also known as PDLC (Polymer Dispersed Liquid Crystal), a unique material composed of rod-like polymer liquid crystal (LC) mixed with a pre-polymer phase, combining both liquid and crystal characteristics. In the absence of an electric field, its molecules are in an opaque state. Upon the application of an electric field, the molecules realign in an orderly manner, resulting in transparency. By controlling the electric field, you have the ability to switch between transparent and opaque states.

Product Structure



Installation Steps



Adhesive Liquid Film

Product Parameters

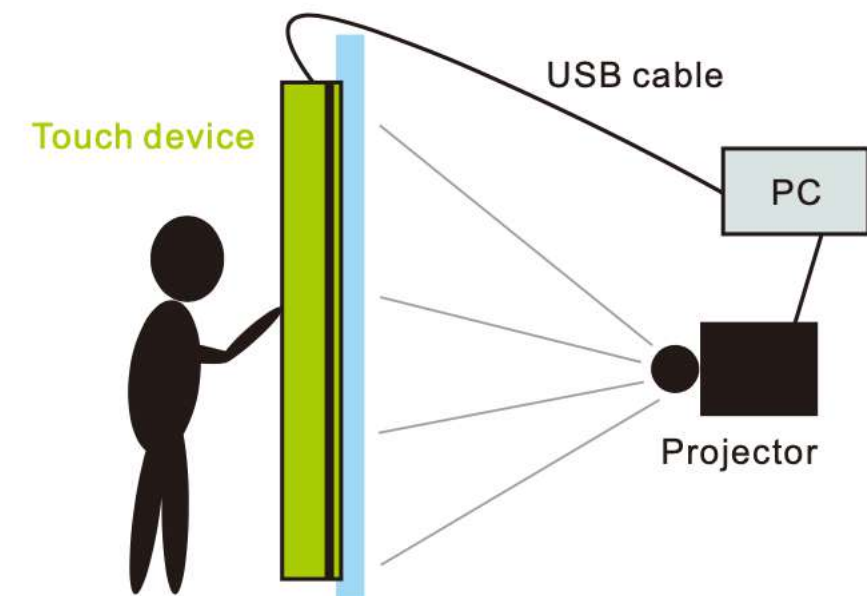
Environment Parameter	Mode	Parameter
Optical Parameter	Power ON	>78%
		Power OFF
	Power ON	
		Power OFF
	Power ON	
		Power OFF
Visual Angle	Power ON	
Electrical Parameter	Power ON	48V AC
	Power ON	<25V
	Power OFF - Power ON	<200ms
		Power ON - Power OFF
Power	Power ON	<5W/M ²
Physics Parameter	0.5 (MM)	
	≤1.8x3.2 (M)	
	0.93/1.2/1.5/1.8M(W) x 20/30/50M(L)	
	50g/mm	
Environment Parameter	-10°C - 65°C	
	-20°C - 80°C	
	POWER ON > 10 Years	
	>80,000,000	

Multi-Media Projector Film

Product Introduction

Experience the Next Level of Multimedia Presentation with Our Smart Show Window. Combining traditional glass and self-adhesive PDLC film, this window also features super-close focus touch screen, infrared touch screen, and computer capabilities. When turned off, the glass can be used for gaming interactions, and when turned on, it creates a transparent 3D projection display, making it the perfect solution for store windows, outdoor advertisements, and bank counters.

Discover a New Era of Projection with Our Smart Glass. The combination of touch screen technology and the ability to function as a projection wall, allows for intuitive control of size and scale with simple finger movements. It's the ultimate choice for any projection needs



Multi-Media Projector Film

Product Parameters

Environment Parameter		Mode	Parameter
Optical Parameter	Visible Transmittance	Power ON	>78%
		Power OFF	>56%
	Parallel Transmittance	Power ON	>66%
		Power OFF	<1.5%
	Haze	Power ON	<5%
		Power OFF	>96%
Visual Angle	Power ON	>150°	
Electrical Parameter	Working Voltage	Power ON	48V AC
	Saturation Voltage	Power ON	<25V
	Response Time	Power OFF - Power ON	<200ms
		Power ON - Power OFF	<10ms
	Power	Power ON	<5W/M ²
Physics Parameter	Thickness	0.65 (MM)	
	Max Size	≤1.5x3.2 (M)	
	Roll Size	0.93/1.2/1.5M(W) x 20/30/50M(L)	
	Adhesive force of Silicone and Glass	20g/mm	
	Adhesive Force of smart film	50g/mm	
Environment Parameter	Working Temperature	-10°C - 65°C	
	Storage Temperature	-20°C - 80°C	
	Life Times	POWER ON > 10 Years	
	Switch Times	>80,000,000	

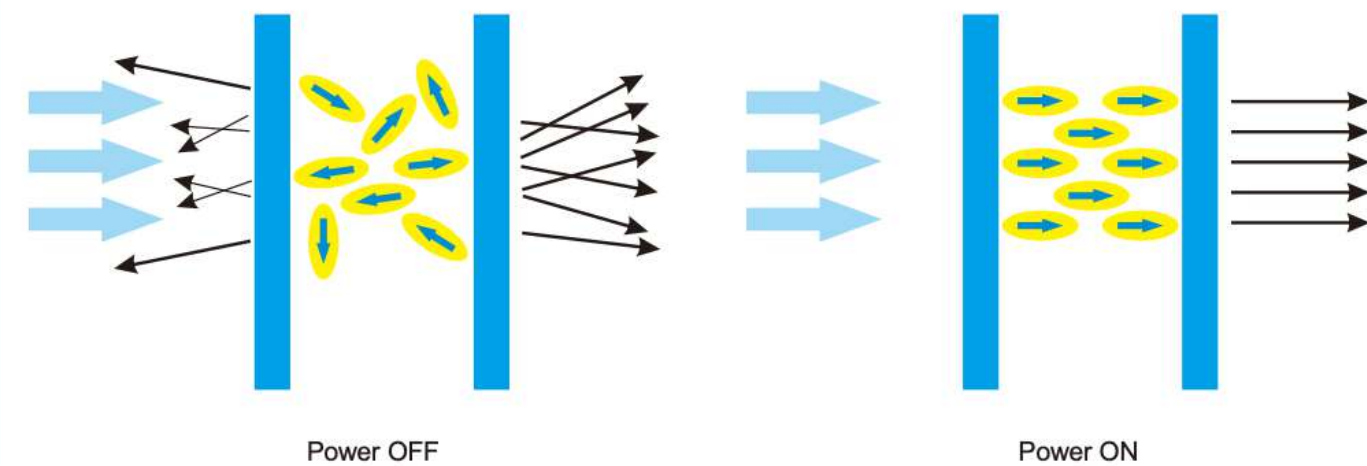
Self-Adhesive Liquid Film

Product Introduction

Transform your glass surfaces with Self-Adhesive PDLC Film. Whether you need privacy or transparency, this film provides both with the flick of a switch. Even without electricity, the frosted state of the glass still allows for ample lighting.

As a rear projection film, it enhances picture color saturation and can create floating images. It's ideal for a variety of engineering projects, artistic performances, and advertising presentations. And with the added touch module, it becomes an oversized touch screen.

From virtual fitting rooms and gaming interactions in a store setting, to stunning shows, the Self-Adhesive PDLC Film offers unlimited potential.



Self adhesive film combine with protection film, ITO and AB glue. Stick the film on glass directly, it frosted when power off and transparent when power on. Those who already settled the normal glass, just buy our self adhesive film and you will get smart glass.

Self-Adhesive Liquid Film

Product Parameters

Environment Parameter		Mode	Parameter
Optical Parameter	Visible Transmittance	Power ON	>78%
		Power OFF	>55%
	Parallel Transmittance	Power ON	>66%
		Power OFF	<1.5%
	Haze	Power ON	<5%
		Power OFF	>90%
Visual Angle	Power ON	>150°	
Electrical Parameter	Working Voltage	Power ON	48V AC
	Saturation Voltage	Power ON	<20V
	Response Time	Power OFF - Power ON	<200ms
		Power ON - Power OFF	<10ms
	Power	Power ON	<5W/M ²
Physics Parameter	Thickness	0.65 (MM)	
	Max Size	≤1.5x3.2 (M)	
	Roll Size	0.93/1.2/1.5M(W) x 20/30/50M(L)	
	Adhesive Force	25g/mm	
Environment Parameter	Working Temperature	-10°C - 65°C	
	Storage Temperature	-20°C - 80°C	
	Life Times	POWER ON > 10 Years	
	Switch Times	>80,000,000	

Laser Television

Product Introduction

Independent Development, Super Technology

- Laser display is the fourth generation tech, it brings you good color, shows the picture amazing.
- You can enjoy clear video in 1 meter space.
- PDLC material makes the video very clear.

Super-sized viewing options with multiple size choices

- Available in three sizes (100, 120, 150 inches) to fit your needs
- Optimal viewing distance of 3-4 meters
- Immerse yourself in a sensory experience with support for somatosensory games and movies
- Upgrade 2D movies to 3D with ease
- Try out a unique experience with our transparent screen option



Laser Television

Product Parameters

Environment Parameter		Mode	Parameter
Optical Parameter	Visible Transmittance	Power ON	>78%
		Power OFF	>55%
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	Roll Size	0.93/1.2/1.5M(W) x 20/30/50M(L)	
	Adhesive Force	25g/mm	
Environment Parameter	Working Temperature	-10°C - 65°C	
	Storage Temperature	-20°C - 80°C	
	Life Times	POWER ON > 10 Years	
	Switch Times	>80,000,000	

Application Fields

Hotels



POWER OFF



POWER ON



POWER OFF



POWER ON



POWER OFF



POWER ON



POWER OFF



POWER ON

Application Fields

Villas



POWER OFF



POWER ON



POWER OFF



POWER ON



POWER OFF



POWER ON

Application Fields

Business Centers



POWER OFF

POWER ON



POWER OFF



POWER OFF



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POWER OFF

POWER ON



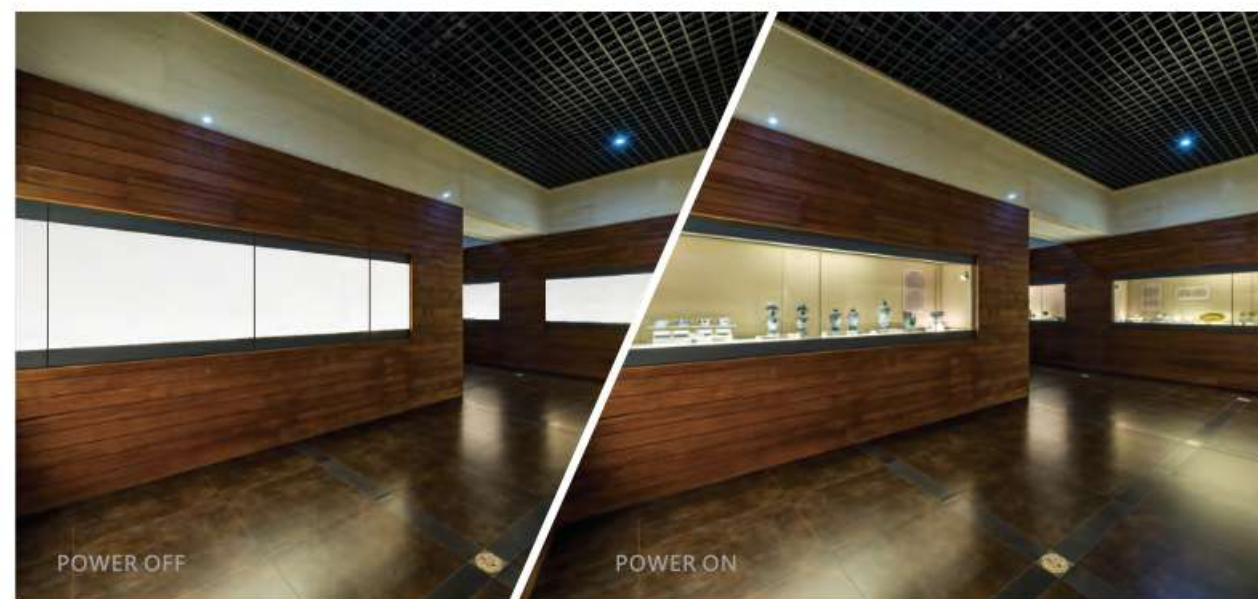
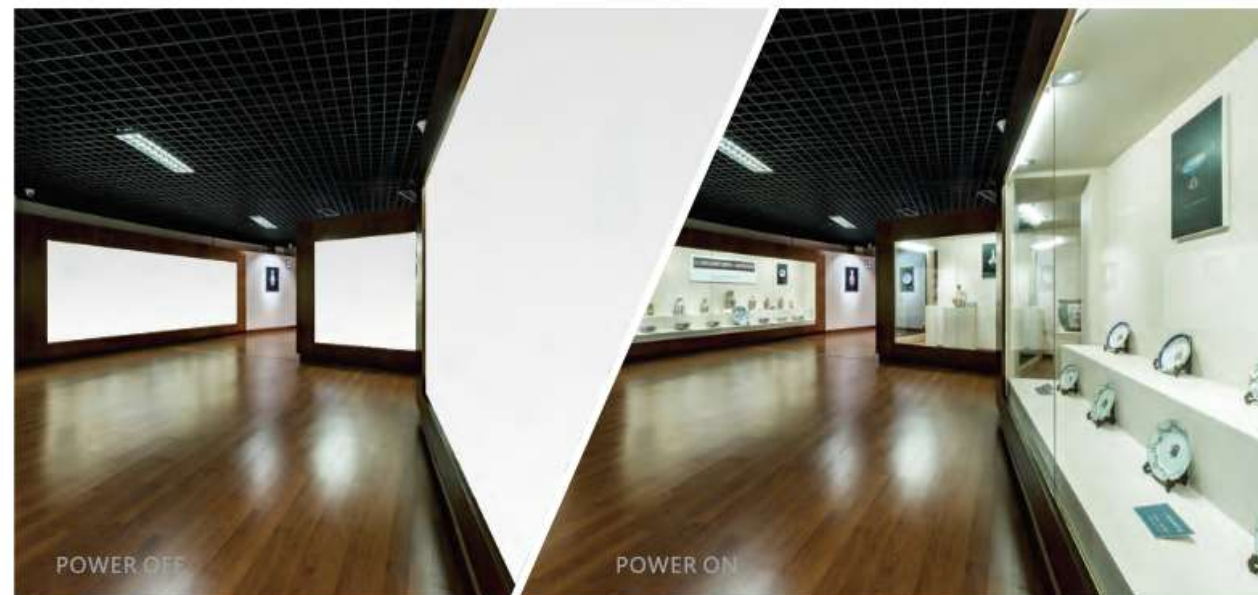
POWER OFF



POWER ON

Application Fields

Museums



Application Fields

Hospitals



POWER OFF

POWER ON



POWER OFF

POWER ON



POWER OFF

POWER ON



POWER OFF

POWER ON



Application Fields

Prisons



POWER OFF



POWER ON



POWER OFF



POWER ON

Application Fields

Transportation



POWER OFF



POWER OFF



POWER OFF



POWER ON



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