

InnoGlass

High Quality Smart Film & Glass Manufacturer

Who is InnoGlass ?

With over 15 years of experience in smart film and glass production, we are a leading factory offering high-quality products and comprehensive support. Equipped with advanced production lines and strong R&D capabilities, we are dedicated to innovation in the smart film industry.

Why choose InnoGlass?

Stable Supply & On-Time Delivery

Strong production capacity ensures reliable supply.

Full Range of Smart Glass & Film

A wide variety of products to meet diverse needs.

Flexible OEM Service

Custom branding to support market differentiation.



Project Design Support

Professional solutions to guarantee project success

Local Market Promotion Support

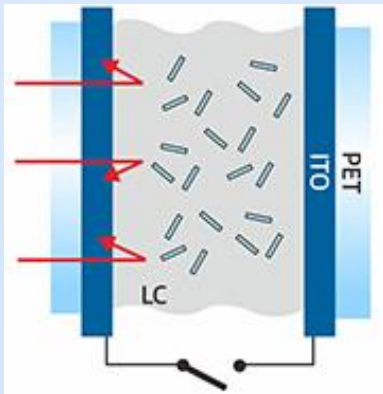
Helping clients expand their market and grow business.

Fast Return & Exchange:

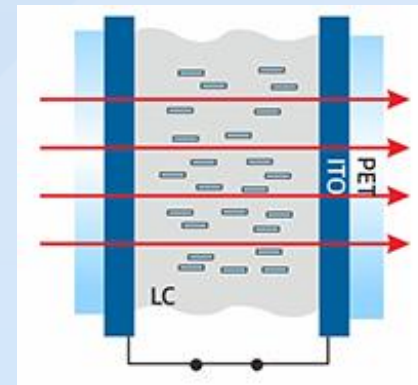
Simplified process with quick response.

What is PDLC film ?

Switchable PDLC film: Polymer Dispersed Liquid Crystal, when the liquid crystal molecules are energized, the liquid crystal molecules tend to be in the same direction, and the light can pass through, showing a transparent state, being in a disordered state when the power is off, and being frosted white;



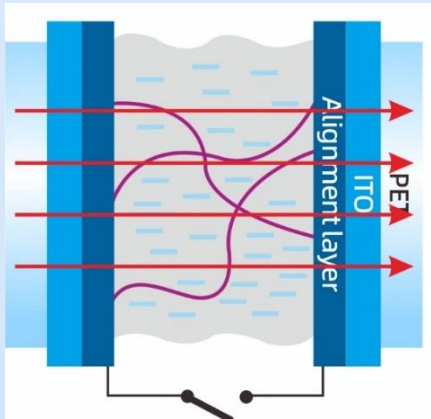
Power off: Opaque



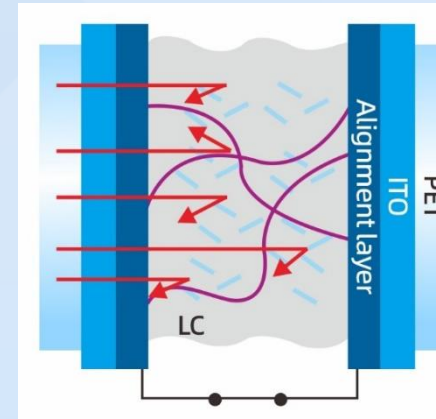
Power on: Clear

What is PNLC film ?

PNLC (Polymer Network Liquid Crystal) smart film, also called Reverse PDLC film, normal power off condition is clear, when power on, change to opaque; it is an advanced technology product that leverages the alignment properties of liquid crystal molecules to control light.; it seamlessly switches between transparent and opaque states. This film is widely used in privacy protection, projection displays, and energy-efficient buildings.



Power off:Clear



Power on:Opaque

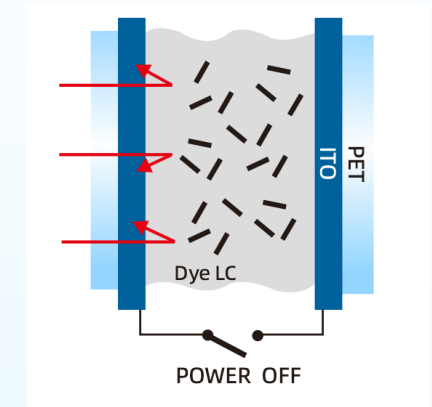
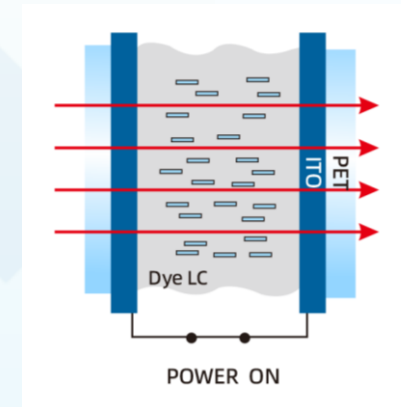


What is DLC film ?

DLC Smart Film utilizes advanced dye-doped liquid crystal technology to switch between transparent and black opaque states, offering both privacy protection and solar shading. Unlike traditional PDLC film, which only provides privacy without shading, DLC Smart Film overcomes this limitation. It is the ideal solution for residential windows, curtain wall glass, and other architectural applications..

Key Advantages:

- **High Contrast Light Transmission Control** – Achieves a sharp contrast between fully transparent and deep black states.
- **Dual Functionality** – Combines solar control and privacy protection in one innovative solution.
- **Gradual Dimming Capability** – Allows adjustable light transmission for customized shading and comfort.
- **Energy Efficiency & UV Blocking** – Reduces heat and UV exposure, improving indoor comfort and energy savings.
- **Fast Response Time** – Instantly switches between states for seamless control.



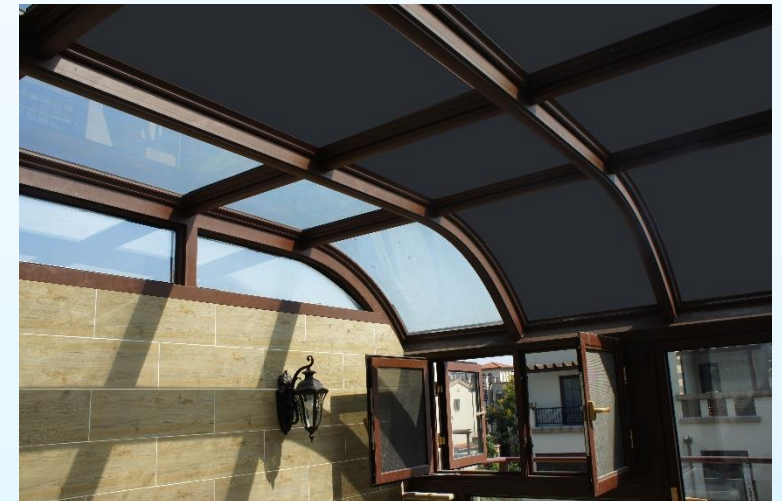
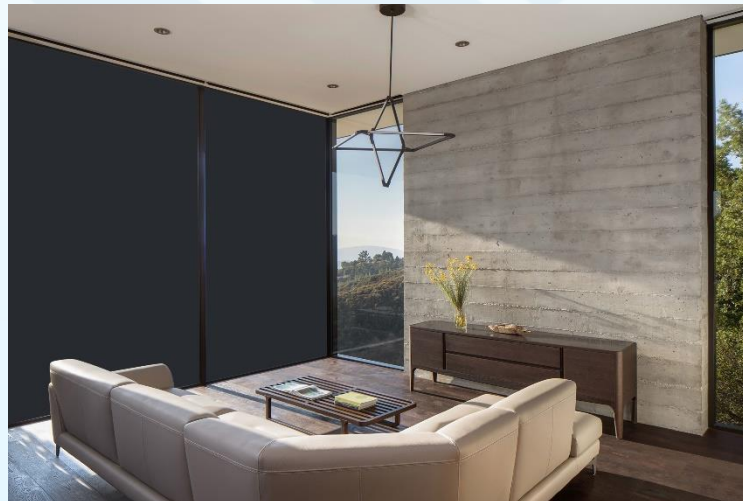
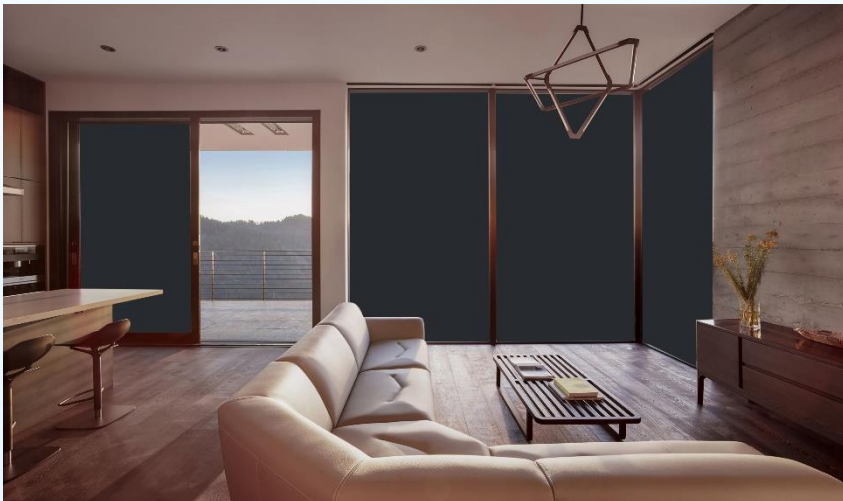
DLC Smart Film is the next-generation solution for both privacy and solar control, bringing efficiency, comfort, and innovation to various industries.

 **Architectural Glass** – Ideal for residential windows, commercial buildings, and curtain walls.

 **Healthcare & Medical** – Provides privacy in hospital rooms, patient areas, and consultation spaces

 **Smart Homes** – Enhances modern home design with intelligent glass solutions.

 **Retail & Shopping mall** – Used in storefronts and showcases to control visibility dynamically.





Office, Hospital ,Bank, Bathroom and so on ...

Perfect application on Automatic door and shower glass!

What is EP film ?

EP (Electropolarization) Solar Control Smart Film is a cutting-edge technology for dynamic light and heat management. By adjusting the arrangement of polarized materials through an applied voltage, this film controls the amount of light and heat that passes through, providing unparalleled performance in terms of energy savings, privacy and comfort.

Product Features

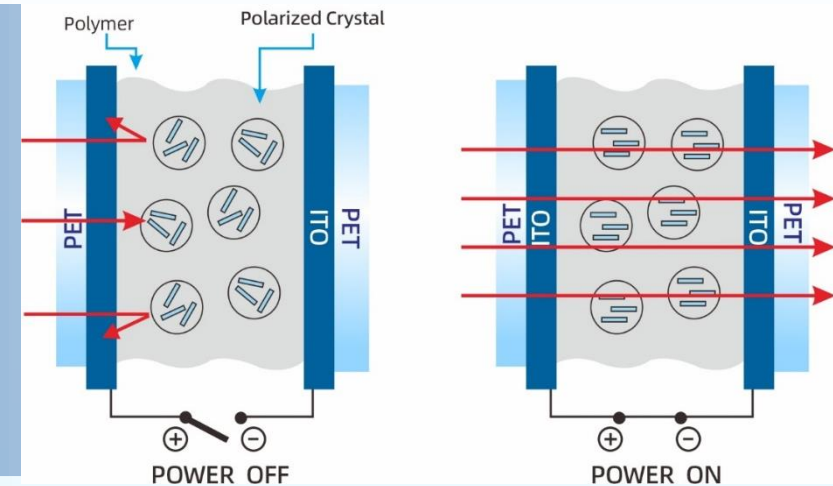
Dynamic Coloring: Seamlessly adjusts light transmission from clear to dark in milliseconds.

Solar Thermal Control: Dramatically reduces solar heat gain, improving indoor comfort and reducing cooling costs.

Energy Efficiency: Reduces energy consumption by blocking heat and UV rays while maintaining natural light.

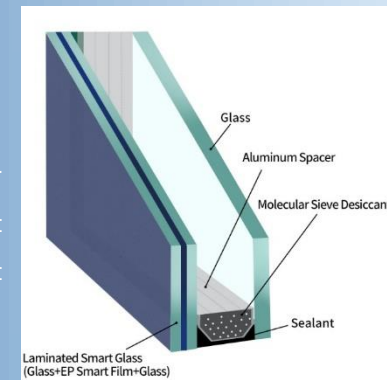
Durability: High stability and long service life, even under extreme environmental conditions.

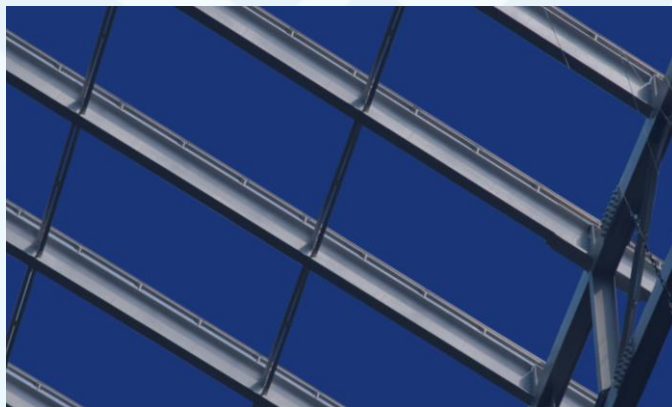
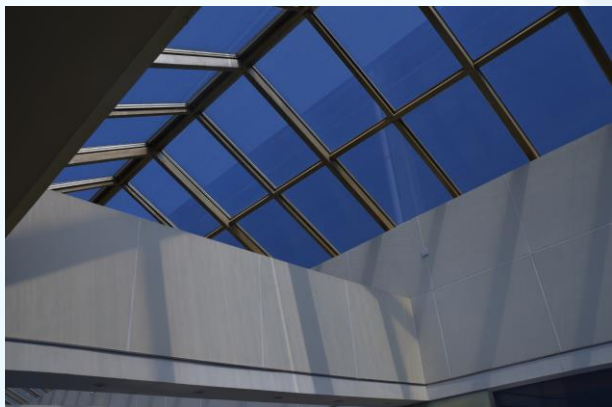
Customizable Options: Available in a variety of sizes, colors and shapes to meet specific project



Product Structure

The structure of the EP smart film consists of a film made with two layers of ITO PET and a central polarizing polymer material. The maximum product size is 1.5*50m, and it can be cut and processed according to project specifications. It uses a safe laminated process and, when combined with Low-E glass in an insulating glass structure, achieves intelligent shading and dimming functions.





architectural sunroofs, curtain walls, skylights, doors, windows,
automotive sunroofs, automotive windows and so on



Self-adhesive type

- There have one adhesive glue on one side of film, you can stick on the existing glass surface;
- Easy to application!
- Thickness: 0.12mm 0.4mm
- Roll Size: 1/1.1/1.2/1.3/1.4/1.5/1.6/1.7/1.8*50m
- we can supply sheet type and roll type, we cut based on your size, and install busbar for you.



Non-adhesive type

- There no any adhesive glue on the film, normally for laminated smart glass; Thickness : 0.4MM
- Roll Size: 1/1.1/1.2/1.3/1.4/1.5/1.6/1.7/1.8*2*50m
- we can supply sheet type and roll type, we cut based on your size, and install busbar for you.

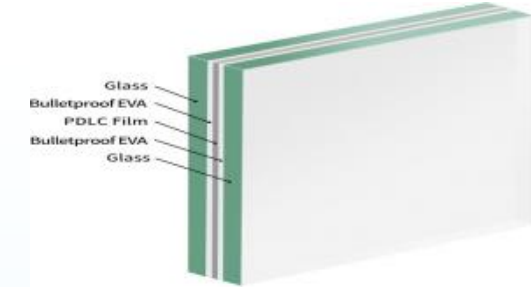


Smart Glass type

- we can supply finished laminated smart glass: glass + EVA + PDLC film + EVA + glass:
- Thickness : glass (4/5/6/8mm) + EVA + PDLC / PNLC film + EVA + glass (4/5/6/8mm)
- Max Size: 1.8*3.2m
- We can supply different shape also.

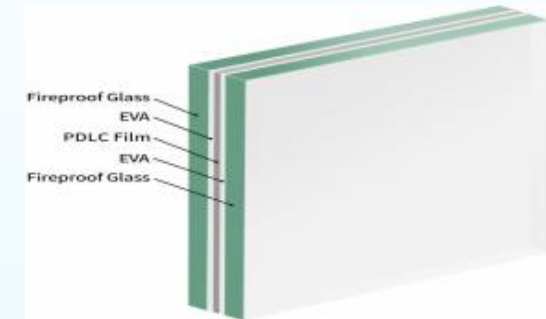
Bulletproof Smart Glass

In some bank and other projects with special security requirements, we use special bulletproof film and smart PDLC/PNLC film to laminated, so as to realize the perfect combination of bulletproof and intelligent privacy protection.



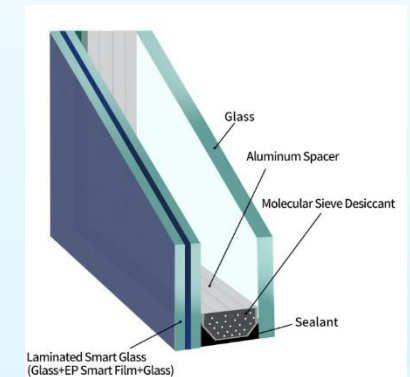
Flireproof Smart Glass

We use fireproof glass and PDLC film to laminated the smart product, so as to achieve the function of combining fire prevention and intelligent glass, product structure: fireproof glass + PDLC/PNLC + fireproof glass, and the fireproof performance can meet 30-90min;



Insulated Smart Glass Unit

Product structure: laminated smart glass (glass + PDLC/PNLC film + glass) + 9A/12A + low E glass. The product has more energy-saving and environmental protection performance, mainly used on window glass, building glass doors and windows, roofs, building curtain walls, etc.





01
Remote switch



02
Wall switch



03
Wifi wall switch



04
Wifi switch



05
Wifi control



06
Amazon Echo,
HomePod,
Xiaomi

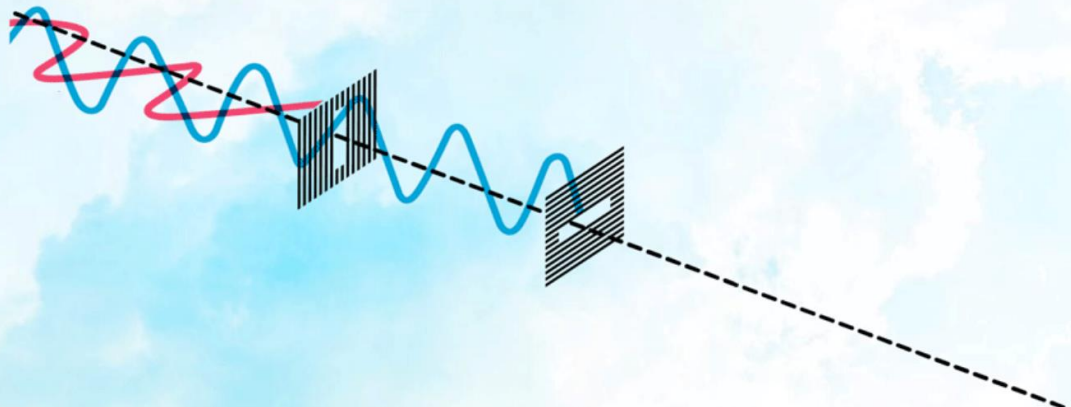
Apple
Google Home

InnoTint® Nano Cloaking Film is an advanced privacy film that utilizes the principles of how LED/LCD screens work. By aligning with the screen's raster at a specific angle, it effectively hides the display from specific viewing angles, making the screen invisible to unauthorized viewers. This innovative solution is designed to enhance data privacy, especially in sensitive environments such as conference rooms, boardrooms and open office spaces.

InnoTint® provides a reliable and discreet way to protect confidential information, giving the modern workplace peace of mind.

Technical Principles

LCD/LED displays Polarized Light Technology Principles



Structure

Protective Film

Polarizer

Adhesive

Release Film

Specification

Item			Data
Product			Nano Cloaking Film
Thickness	Total	μm	310±30
	Effective	μm	160±20
Separation Strength	Release film	g/25mm	≤50
	Protective film	g/25mm	≤50
	Adhesive with glass	g/25mm	≥200
Optical Data	Single transmittance	%	42±2
	Parallel transmittance	%	33±2
	Cross transmittance	%	<0.01
	UV block(380nm)	%	≥99
	Polarizing Efficiency	%	≥99
Roll size	Width	mm	1220(48") / 1520mm(59")
	Length	m	40
Color			Grey
Backing Adhesion			Silicone Self-adhesive
Working Temperature			-5 to 60°C
Warranty			5years

Application

Our product uses a special self-adhesive layer, which makes it easy to install compared to other products;



Safety Package

We use different safe packaging methods, which can meet the needs of air and sea transportation!



Warranty

InnoGlass offers a FIVE year warranty; We supply full instruction to use and operate!

Delivery Time

1-2weeks

www.inno-glass.com

Would you like to be our local partner?

We will provide the following support:

- ◆ Stable product supply capabilities
- ◆ A full range of smart glass and film products
- ◆ OEM partnership opportunities
- ◆ Fast returns and exchanges
- ◆ Project solution design support
- ◆ Local customer acquisition support

Warranty

- ◆ Product : two years
- ◆ Service : Operation and install training and support