



ZHIYUAN BUILDING MATERIALS CO.,LIMITED

TEL: +86-20-29170376 FAX: +86-20-29170376

Email: mark@oypdlc.com HP:+86-18988942570

PRODUCT DESCRIPTION

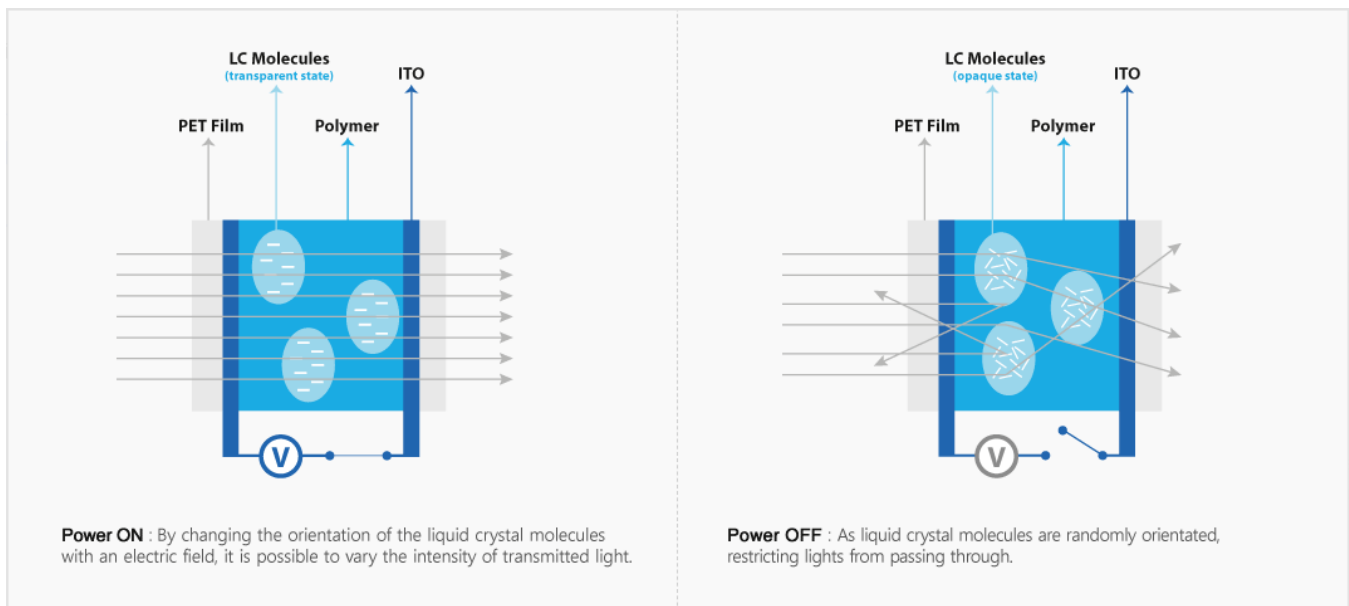
Self Adhesive PDLC Smart Film is manufactured with a self-adhesive cling layer on rear side, you can peel and stick to the existing glass, which provides a simple and cost effective alternative to smart glass panel.

● HOW IT WORK?

Self adhesive PDLC smart film is an improved products from the non-adhesive pdlc smart film. Which Polymer Dispersed Liquid Crystal(PDLC) material inside, through the function of electric fields, can fast switch from transparent and opaque condition.

When power on, the liquid drop of the polymer with liquid crystal dispersion will rearrange, the liquid crystal will become ruleless arrangement to ordered arrangement, which makes the same refractive index of the liquid crystal and the polymer, so incident light can pass through completely to form transparent condition.

● PICTURE OF PRODUCT THEORY:



● PRODUCT-FEATURE

1. Transparent when power on, opaque when power off; freely switching; concise and convenient.
2. Removable, self-adhesive (Peel and stick).
3. Can be applied onto the regular glass without replacing the existing glass
4. Various controlling ways: switch, light control, voice control, thermal control, remote control, remote network control, etc, custom made by customers' require.

● TECHNICAL SPECIFICATIONS

Thickness	Thickness of a piece self adhesive Pdlc-interlayer	0.4mm approximately
Max size	1500x4000mm	
Life time	>50,000hr (ON)	
View angle	150°	

Optical Properties	Visible Light Transmission	ON	>80%
		OFF	<1%
	Visual Angle	ON	150°
	UV Blocking	OFF/ON	>99%
	Haze	OFF/ON	94%/6%
Electrical Properties	Operating Voltage	ON	65AC
	Frequencies	ON	50 to 60Hz
	Current	2mA/m2	2mA/m2
	Response Time	ON==>OFF	10ms
		OFF==>ON	20ms
Power Consumption	ON	5W/m2/hr	
Specification	Durable Temperature	-30°C to 100°C	
	Life Time	>50000hr	
	Thickness	0.4mm	

● APPLICATION:



Power on



Power off

OFFICE

BATHROOM



Power off



Power on



Power off



Power on

BANK

HOSPITAL



Power off



Power on

Self Adhesive Smart Switchable Film Installation Guide

Tools required

- Self adhesive smart switchable film
- Clean paper
- IPA (Iso-Propyl alcohol)
- Soft cloth
- Wires
- Plastic scraper / roller
- Wire cutters / scissors
- Plastic cover / clear tape

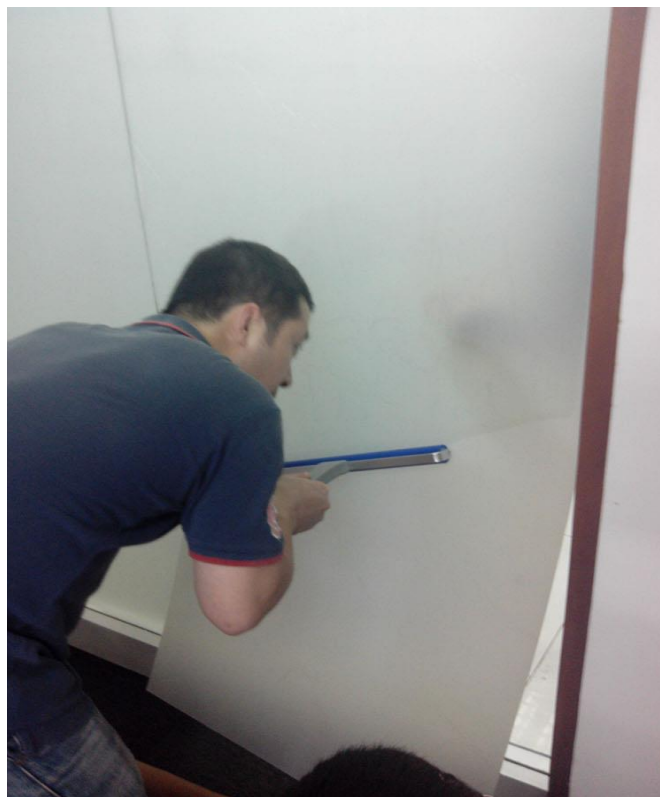
Please note

- The self adhesive film is a dry install application. Make sure there is no water on the glass surface.
- We recommend the outer dimensions of the self adhesive film are 2-3 mm shorter than the visual area of the glass.
- The bus bar should never come into contact with any metal frame or other conductive materials.

Installation

1. Clean the glass with a soft dry cloth until the surface is completely clean. And to make sure the surface is dry, you might use IPA while cleaning.
2. Peel the protective cover (there is one side with stickiness) and stick the film on the glass. It would be a same way as you stick the guard film for you mobile phone or ipad.
3. And please note the bus bar should never come into contact with any metal frame or trim. You could use a plastic cover to prevent the bus bar edge exposed.
4. At last we advise using a cover trim (clear tape is also available) on all the four edges of the film and clean it with IPA and soft cloth.

Photo in Installation



Accessories:



Remote control



Power adapter(Transformer)