

China high quality magic PDCL insulating triple glazed panels with smart glass prices

About insulated smart glass

Insulated privacy [smart film glass](#) (Insulated Smart Glass), which make by smart film [laminated glass](#) with another panel glass compound into insulated smart glass. Its featured with high sound insulation, heat insulation and privacy function, which is suitable for sun room, office, hotel, school, residence, hospital, large freezer, etc.

switchable IGU option A



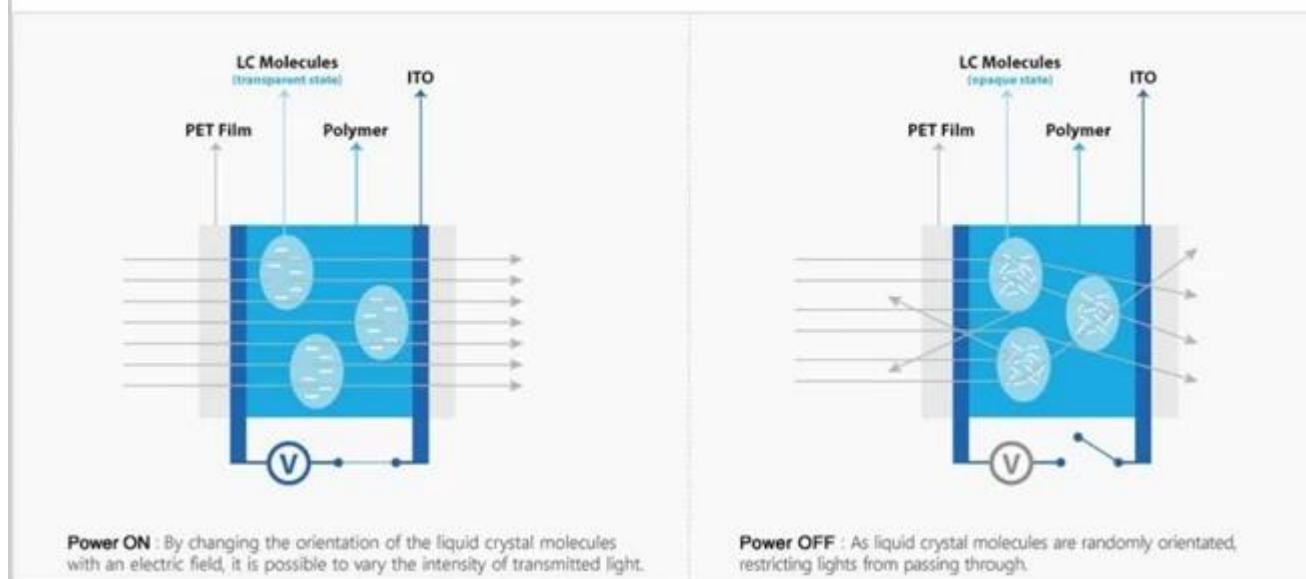
switchable IGU option B



Smart PDLC film glass features:

- 1. Privacy protection:** Transparent(power on), Opaque but light previous (power off) in high switching speed.
- 2. Energy Saving:** In an energize state, only 5 W low power consumption per square meter per hour, 60% infrared can be shield by smart film to reduce heat radiation and transfer; 99% of UV can be shield to protect interior furnishings from color- shading or aging, to protect personnel from diseases caused by ultraviolet radiation
- 3. Sound proofing:** smart film glass is with sound damping effect, can effectively block all kinds of noise
- 4. Diversified control :** Smart film glass can be controlled by wall switch, dimmer, monition detector, light, temperature sensor, remote controller or remote net work control
- 5.** with simple structure, low cost, easy installation, and easy controlling mode, there is no need for complicated installation of curtains and following clean-up work
- 6.** it can be equipped with any size glasses, transparent when power on, opaque when power off, its free to switch , simple and convenient

How it works?



Smart PDLC film insulated glass Physical parameter

Shape	Flat or curved
Measure	Customized size (Max:2000mm~3500mm Mini:180mm~350mm) Minimum radius:500mm Max length of arc 1350mm(R<1200, H<2370) 2400mm(R>1200) 3600mm(R>1200 H<2370)
Thickness	Smart laminated Glass(STG) thickness: 4+4mm, 5+5mm, 6+6mm, 8+8mm , 12+12mm smart insulated glass thickness: 5+9A+8mm STG, 8+ 12A+8STG, 10+12A+10STG, 12+12A+12STG, 12+12 A+16STG, etc.
Glass type	Double layer laminated insulated glass, Triple layer smart laminated insulated glass, triple glazed smart glass panels, and so on
Aluminum Spacer Width	6,9,12,16mm (1/4", 11/32", 1/2", 5/8")
Original glass	clear float glass & low iron float glass, power on is clear
Processing type	insulated, hot bent/ bending, tempering, back-paint, screen printing, wiring , digital printing, coating, laser engraving, etc
Deep processed	cut to size, drilling holes, notch/ cutout
Control way	Remote control, voice control , Phone-app control, etc

PDLC Smart Glass parameters

Item	model	parameters	
Optical parameter	Visible light transmittance	power on	≥82%
		power off	≥55%
	Fog degree	power on	≤4%
		power off	≥95%
	viewing angle of screen	power on	≥150°
	Uv isolation rate	power on/ power off	≥98%
Electrical parameter	Working/Operating voltage	power on	60V AC
	Response/Switching time	OFF-ON	≤45ms
		OFF-ON	≤45ms
	Power Consumption	power on	≤5W/M ²
Thickness	PDLC film thickness	0.38mm	
Enviromental parameter	Operating temperature		-30°C~60°C
	Storage temperature		-40°C~ 70°C
working life	power on		>15year, quality guarantee 2 years
on-off times			≥100 ten thousand times

Insulating smart PDLC film magic privacy glass which widely used for glass window, [glass door](#), glass partition wall, glass facade curtain wall, and so on

