

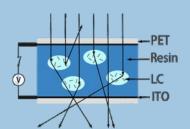




What Is Smart Film?

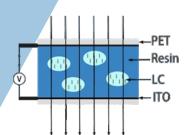
he base of smart film is PDLC (Polymer Dispersed Liquid Crystal). The liquid crystal molecules line up and the incident light passes through when power is on, the smart film becomes transparent from an opaque state. On the other hand, when the power is off, the liquid crystal molecules are randomly oriented so that light is scattered, results in opaque state.

The smart film provides a next generation alternative to blinds or privacy in daily life. It is the ideal choice for commercial or residential installations.





OPAQUE STATE





TRANSPARENT STATE

Benefits



Privacy

Offers an instantly swift from transparent to opaque



Quick response

Change in 0. 1 second between two states



Daylight control

Helps control room temperature & reduce energy costs



Sound insulating

Reduce noise and create a more peaceful ambience



Safety & Security

Prevents scattering of glass fragments in case of breakage



Multi control modes

Switch, remote control, mobil APP, etc.



Smart Film for Lamination





we supplies massive rolls smart film and costumed size ones with bus-bars to the companies which is looking to produce your own switchable smart glass.

	Туре		CLEAR80 ULTRACLEAR85 AUT		AUTO85
Testii	ng Parameters	States		Result	
	VII.T	ON	≥80%	≥82%	≥82%
Ontical	VLT	OFF	<70%	<70%	<75%
Optical	HAZE	ON	<10ms <10ms <200ms	≤3%	≤3%
	HAZE	OFF		≥98%	≥95%
Electrical	Working Voltage	ON	48∼65V AC	48∼65V AC	48V AC
	Response Time	ON	<10ms	<10ms	<10ms
		OFF	<200ms	<200ms	<200ms
	Power Consumption	ON	≤5W/m ²	≤5W/m ²	≤2W/m ²
Environmental	Operating Temperature	ON/OFF	-10°C to 70°C	-10°C to 70°C	-30°C to 95°C
Size	Thickness		≤400μm	≤400μm	≤400μm
	Maximum Width		2000mm	2000mm	2000mm
	Maximum Length		50m	50m	50m
Color Off Regular color is White, other color can		an be ordered.			
Recommo	ended Application		Buildings Buildings Auto		Auto



Self-adhesive Smart Film



o users who are looking for switchable privacy glass film on a budget, the self-adhesive switchable film is a more cost effective option compared to alternative technology. It can be easily installed onto existing glass without extra need for water or any additional mounting adhesives. You can simply install the film and wire it back to the transformer. Custom sizes of our film can be supplied to fit on existing glass surfaces like glass partitions or external windows or multiple pieces can be joined to cover large partitioned areas.

	Туре		CLEAR80PS ULTRACLEAR85PS AUT		AUTO85PS
Testin	g Parameters	States		Result	
	VLT	ON	≥80%	≥82%	≥82%
Optical	VLI	OFF	Result ≥80% ≥82% <75%	<75%	<75%
Optical	HAZE	ON	≤4.5%	≤3.5%	≤3.5%
	HAZE	OFF	<75% ≤4.5% ≥95% 48~65V AC <10ms <200ms ≤5W/m² -10°C to 70°C ≤400μm	≥98%	≥95%
Electrical	Working Voltage	ON	48∼65V AC	48∼65V AC	48V AC
	Response Time	ON	<10ms	<10ms	<10ms
		OFF	<200ms	<200ms	<200ms
	Power Consumption	ON	≤5W/m ²	≤5W/m²	≤2W/m ²
Environmental	Operating Temperature	ON/OFF	-10°C to 70°C	-10°C to 70°C	-30°C to 95°C
Size	Thickness		≤400μm	≤400μm	≤400μm
	Maximum Width		2000mm	2000mm	2000mm
	Maximum Length		50m	50m	50m
Color Off R		Regular color i	Regular color is White, other color can be ordered.		
Recomme	ended Application		Buildings Buildings Auto		Auto





he structure of smart glass is laminated safety glass. The PDLC film is sealed between two panes of glass by interlayers (PVB or EVA). It prevents broken glass from scattering after a severe impact, keeping the window intact. It meets safety glass standards and can be used in security and hurricane-resistant window applications. It can be positioned easily side by side (glass to glass) without the need for any vertical frames which makes it ideal solutions for glass walls and partitions, creating a minimal and contemporary look with elegance.

	Туре		CLEAR80G ULTRACLEAR85G AU		AUTO85G	
Testin	g Parameters	States	Result			
	VLT	ON	Depends on thinkness and color of glass.			
Ontical	VLI	OFF		on thinkness and color	and color of glass.	
Optical	HAZE	ON	≤4%	≤3%	≤3%	
	HAZE	OFF	≥95% 48~65VAC <10ms <200ms	≥98%	≥95%	
Electrical	Working Voltage	ON	48∼65VAC	48∼65VAC	48VAC	
	Response Time	ON	<10ms	<10ms	<10ms	
		OFF	<200ms	<200ms	<200ms	
	Power Consumption	ON	≤5W/m ²	≤5W/m ²	≤2W/m ²	
Environmental	Operating Temperature	ON/OFF	-10°C to 70°C	-10°C to 70°C	-30°C to 95°C	
	Thickness		Depends on thinkness of glass.		ess.	
Size	Maximum Width		2000mm	2000mm	-	
	Maximum Length		6m	6m	-	
Color		Off	Regular color is White, other color can be ordered.			
Recomme	ended Application		Buildings Buildings Auto		Auto	



Transformer



or Switchable Glass & Electric Window Film, the power control unit is electrical equipment for electrical privacy glass and PDLC film application. It changes the higher voltage (110-220V) to lower work voltage (48-65V). We provide different type of power supply, which will fully meet your different requirement for control the products.

			0.0
Туре	KT-M15	KT-M60	KT-C1
Input Voltage	110/220VAC	110/220VAC	110/220VAC
Output Voltage	48/60VAC	45V/48V/60VAC	48/50/60/70VAC
Frequency:	50/60Hz	50/ 6 0Hz	50/60Hz
Control Mode	Switch/Remote controller/App	Switch/ Remote controller / App	Switch/ Remote controller / App
Multi-level Control	Yes	Yes	No
Switch Time	<1s	<1s	<1s
Power	10W	50w	30-1000w
Qty of Smart Glass/Film Applied	2m²	10 m²	6-200m²



