



FILMBASE 091

Smart Film

90%-92%
Highest transmittance

<3%
Haze

Key Features



Dynamic Privacy



Environmental protection



Space partition



Touch screen and projection



Security



Heat-resistant and anti-scratch

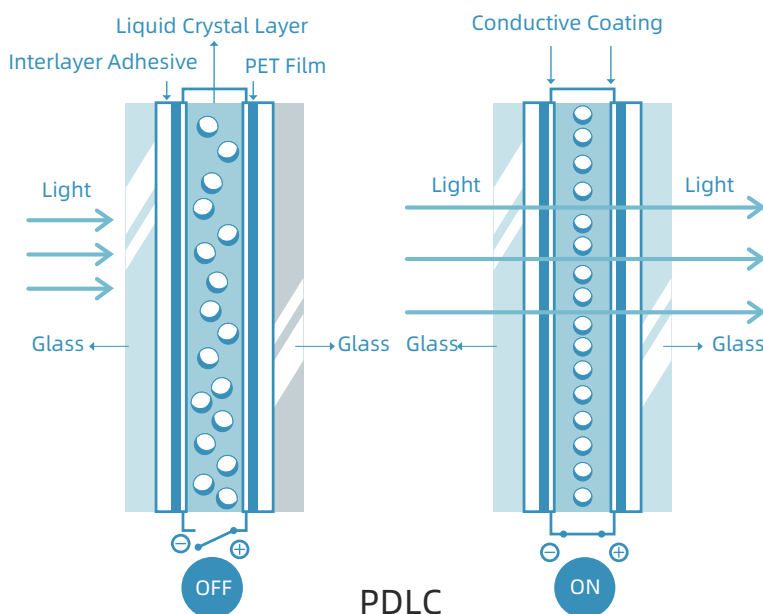


Anti-noise



Various control methods

Technical Principles



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Size

Items			
Adhesive PDLC film	Total Thickness		0.47mm
	Cut to Sheet	Width	100-1800(mm)
		Length	100-50000(mm)
	Roll	Width	1200,1500,1800(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches
Laminated PDLC film	Total Thickness		0.38mm
	Cut to Sheet	Width	100-1800(mm)
		Length	100-50000(mm)
	Roll	Width	1200,1500,1800(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches

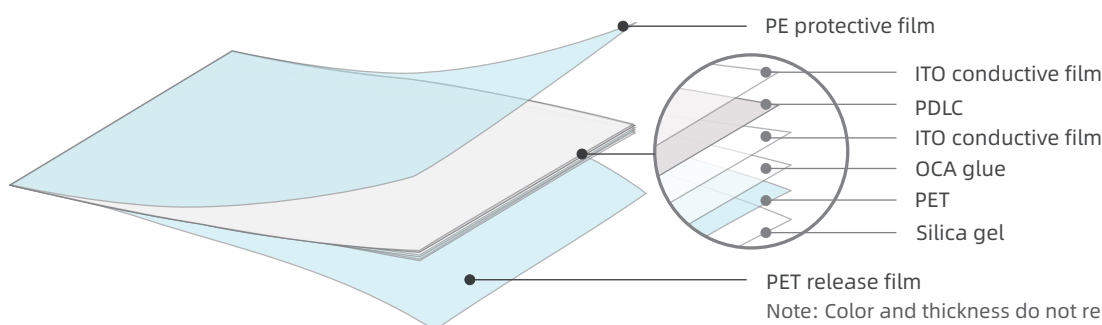
Optical Parameter

Items	ON/OFF		Test Methods/Standards
Operating voltage	ON	60V	Multimeter/Voltage Regulator,WGW
Power consumption	ON	$\leq 5W/m^2$	Multi-parameter electric measuring instrument
Viewing angle	ON	$\geq 160^\circ$	Visual Inspection
Uv blocking rate	OFF	$\geq 99\%$	Optical transmittance tester
Infrared blocking rate	OFF	$\geq 60\%$	
Response time	OFF→ON	$\leq 30\text{ ms}$	Liquid crystal parameter integrated tester
	ON→OFF	$\leq 200\text{ ms}$	
Operating temperature	--	-30℃ ~ 50℃	constant temperature and humidity testing machine
Life-span	--	100000 Hours	GB18910.5-2008
Switching times	--	$\geq 2\text{ million times}$	Self-made on/off tester

Product Transparency / Haze

Items	Full light tester				Parallel light tester	
	ON/OFF	Haze	Full light transmittance	b value	45° light	Parallel light
Adhesive PDLC film	OFF	94.5	85.0	7.57	/	/
	ON	3.00	91.0	5.29	60.0	88.0
Laminated PDLC film	OFF	94.5	85.0	6.79	/	/
	ON	3.00	91.0	4.31	60.0	88.0

Structural



Note: Color and thickness do not represent the actual situation,only for the convenience of illustration.

