



PDLC Smart Film Technical Specifications

Size			
Adhesive PDLC Smart Film	Thickness		0.47mm
	Width	Cut to Sheet	100-1800mm
		Cut to Roll	1000,1200,1500,1800mm
	Length	Cut to Sheet	100-50000mm
		Cut to Roll	30 / 50meters
Laminated PDLC Smart Film	Inner Diameter	Roll Tube	6 inches
	Thickness		0.38mm
	Width	Cut to Sheet	100-2100mm
		Cut to Roll	1000,1200,1400,1500,1800,2000,2100mm
	Length	Cut to Sheet	100-50000mm
		Cut to Roll	30 / 50meters
	Inner Diameter	Roll Tube	6 inches
Optical Parameter			
Items	States		Test Methods/Standards
Operating voltage	ON	60V	Multimeter/Voltage Regulator,WGW
Power consumption	ON	$\leq 5\text{W/m}^2$	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°C ~ 50°C	Constant temperature and humidity testing machine
Life-span		100,000 hours	GB18910.5-2008
Switching times		$\geq 2,000,000$ times	Self-made on/off tester





Transparency / Haze						
Items	Full light tester				Parallel light tester	
No.1 84% VLT	ON/OFF	Haze	Full light transmittance	b value	45° light	Parallel light
Adhesive PDLC Smart Film	OFF	94.5	78.0	6.62	/	/
	ON	4.53	84.0	4.56	58.0	82.0
Laminated PDLC Smart Film	OFF	94.5	78.0	5.64	/	/
	ON	4.53	84.0	3.55	58.0	81.0
No.2 89% VLT	ON/OFF	Haze	Full light transmittance	b value	45° light	Parallel light
Adhesive PDLC Smart Film	OFF	94.5	78.0	6.95	/	/
	ON	4.53	89.0	4.71	58.0	86.0
Laminated PDLC Smart Film	OFF	94.5	78.0	5.90	/	/
	ON	4.53	89.0	3.72	58.0	86.0
No.3 91% VLT	ON/OFF	Haze	Full light transmittance	b value	45° light	Parallel light
Adhesive PDLC Smart Film	OFF	94.5	85.0	7.57	/	/
	ON	3.00	91.0	5.29	60.0	88.0
Laminated PDLC Smart Film	OFF	94.5	85.0	6.79	/	/
	ON	3.00	91.0	4.31	60.0	88.0