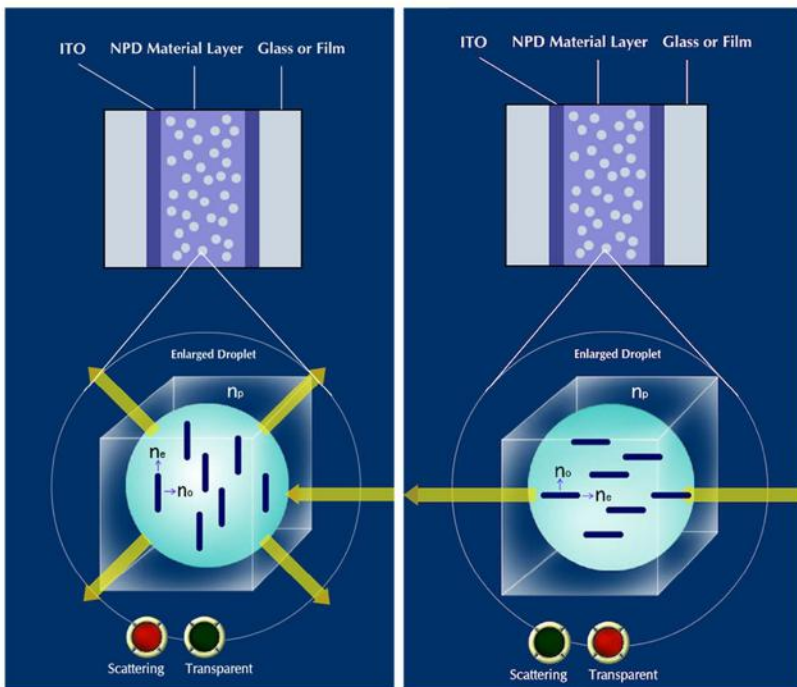




PRIVY

TECHNICAL SPECIFICATIONS



HOW IT WORKS

Liquid Crystal particles are dispersed within a formulated Polymer matrix, and when supplied with a flow of electricity, these particles will align parallel to each other to allow light to pass through. Once the flow of electricity stops, the crystals return to their original position (randomly oriented towards each other), and will block the flow of light. This Liquid Crystal Polymer coated film is then laminated between 2 glass panels to become **PRIVY** glass.

P R I V Y

For Interior Application

Standard Sizes

Film Type	Standard Sizes (meter)
Customized PDLC Film in sheet	Maximum size 1.2 * 3.5 meter
	Maximum size 1.5*3.5 meter
	Maximum size 1.8* 3.5 meter
PLDC Film in roll	1.2 * 50 meter
	1.5 * 50 meter
	1.8 *50 meter
Self adhesive PDLC Film	In sheet 1.2 * 4.5 meter
	In roll 1.2*50 meter

Film thickness

Film Type	Thickness
PDLC film for lamination	0.37mm +/-2%
Self adhesive PDLC film	0.47mm +/-2%

PDLC Film Technical Data

Perform.	Test Item	Data
Operation	Power on	Clear
	Power off	Opaque
Electrical	Operate voltage	AC50V
	Response time	On – off 100ms
		Off – on 2ms
	Power consumption	5W/m2
	Current	70mA/m2
	Frequency	50 – 60HZ
Optical	Parallel light	On 78±2%
		Off 2%
	Visible light	On 80%
		Off 60%
	Haze	On 8%
		Off 95%
Visible angle	140°	
Environment	UV block	98%
	Operate temperature	-5 to + 60 C
	Storage temperature	-5 to + 50 C

Note:

1. Although the film has passed a high voltage test, for extending the operational lifetime of the film, the driving voltage should not exceed 110V.

Calculation for suitable driving voltage is:

Driving Voltage = SV + SRC, SV - Standard Voltage, SRC - Sheet Resistance Compensation. SRC = 5V x Distance between electrodes in foot.

2. The above data are typical values. Due to continual research and development on the products, the data may change without notice.

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