

Energy-saving blue/gray PDLC Film

Our Energy-saving smart PDLC film has the same clarity as typical PDLC Film, it is dark-gray color when opaque. Its not only owns excellent characteristics function of ordinary PDLC Film but also has a very good heat-insulation function, this is the building energy-saving transformation or building energy-saving design preferred.

CHARACTERISTIC

To achieve the balance of heat-insulation and clarity through the way of reflection, conduction and absorption, while blocking the infrared, visible light and ultraviolet light.

Solar heat insulation rate = 3% UV resistance +44%
Visible light resistance + 53% IR Resistance



ANALYSIS AND COMPARISON OF MAIN PARAMETERS

Status	Wave Band	Classic PDLC Film		Energy-saving PDLC Film	
		Transmittance(%)	Total Resistance(%)	Transmittance(%)	Total Resistance(%)
OFF	UV (280-380)	12.11	38	3.94	74
	Visible light (380-780)	58.75		30.11	
	IR (780-1400)	66.80		23.49	
ON	UV (280-380)	17.17	20	6.23	64
	Visible light (380-780)	79.41		44.17	
	IR (780-1400)	83.87		31.13	

Competitive Advantages of VANLONG PDLC Film

- High clarity and Low haze when power on, High haze to keep privacy when power off.
- In roll or in customized sizes, width 1.2/1.5/1.8 meters, length over 100 meters. Can be special made 2.2 meter width for clients.
- Milky white, gray and brown colors available.
- Fully Covered processing production of raw material ITO and PDLC Film, guarantee on stable quality and fast lead time.
- Operation temperature from cold -20°C to hot +70°C .
- Safety low driving voltage, low power consumption.
- High strength of adhesive, long life-span.