

SMART FILM T40 ADHESIVE GREY

Adhesive Polymer Dispersed Liquid Crystal (PDLC) smart film switches between opaque grey and clear grey states instantly. When power is off, liquid crystals (LC) scatter light, making the film opaque. When power is on, the crystals align, allowing light to pass through for full transparency.

ADVANTAGES



Fast Switching Time

Changes from clear to opaque in less than 10 ms



Low Power

Consumes less than 4W/m² when on



Ultra Clear

Transmits more than 45% of visible light



Acoustic Insulation

Acts as a sound barrier reducing noise transmission



Long Lasting

Lasts over 15 years and endures 80 millions of switching cycles



Wellbeing

Allowing natural daylight



Low Haze

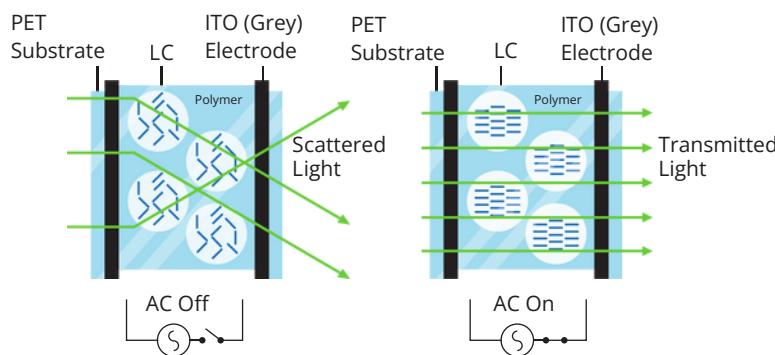
Maintains haze below 4.0%, preserving crisp views



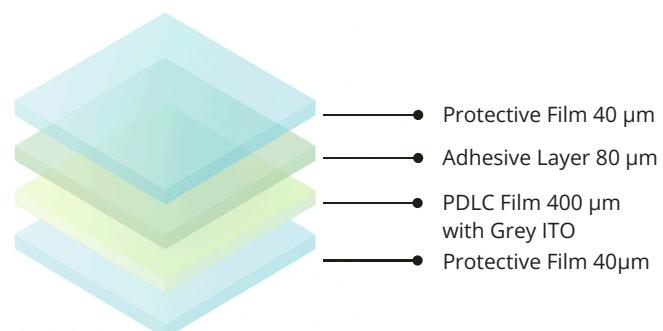
Control

Certified controllers offer on/off and dimming

WORKING PRINCIPLE



LAYERS STRUCTURE



APPLICATIONS



Office
Partitions



Conference
Rooms



Medical Centers
& Clinics



Bathroom
partitions



Showrooms

T40 SMART FILM ADHESIVE GREY SPECIFICATIONS

CATEGORY	PARAMETER	STATE	T40
OPTICAL	Color	ON	Clear Grey
		OFF	Opaque Grey
	Visible Light Transmittance	ON	48% ±1%
		OFF	5%±2%
	Parallel Light Transmittance	ON	45% ±1%
		OFF	3%±2%
	Haze	ON	<4.0%
	Viewing Angle	ON	>140°
	UV Blocking Rate	ON	99.6%
	SHGC	ON	0.37
		OFF	0.07
ELECTRICAL	Controller Input Supply		110V / 220V AC
	Working Operating Voltage	ON	48-65V AC
	Response Time	ON -> OFF	<200 ms
	Response Time	OFF -> ON	<10 ms
	Switching Times		> 80 million Times
	Durability	ON	>15 years
	Smart Film Power Consumption	ON	<4 W/m2/h (<0.36W/Sq. F)
	Controller Power Consumption		2-4 W/m2/h (0.19-0.37 W/Sq. F)
MECHANICAL	Operating Modes		On, Off, Dimming, Segments
	Width		1030, 1235, 1535mm (40 1/2", 48 5/8", 60 3/8")
	Roll Length		30m (≈100 ft) 50m (≈165 ft)
	Formats		Cut to Size , Roll, Custom Roll Blinds, Shapes
	Available Colors		White, Grey, Black, Custom
ENVIRONMENTAL	Compliance		Company: ISO9001, IATF16949 Products: RoHS,CE, UL
	Storage Conditions		-20°C~ 60°C (-4°F ~ 140°F) < 50% humidity
	Working Temperature		-20°C~ 70°C (-4°F ~ 160°F)