CITYSTAR

Smart Film— 085 Series





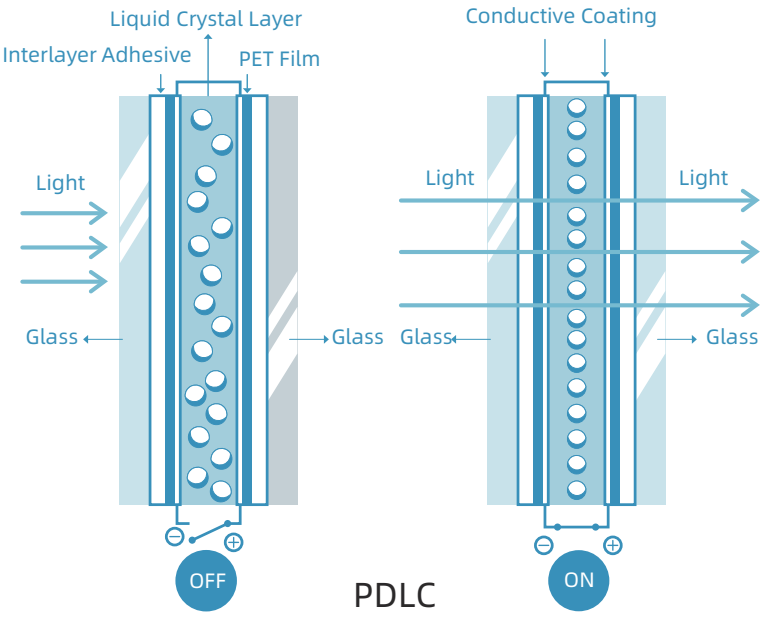
CITYSTAR 085
Smart Film

84%-86% Highest transmittance | **4-5%** Haze

Key Features

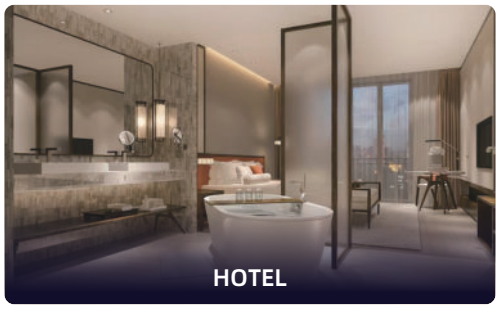
- Dynamic Privacy
- Environmental protection
- Space partition
- Touch screen and projection
- Security
- Heat-resistant and anti-scratch
- Anti-noise
- Various control methods

Technical Principles



PDLC







Whatsapp no +8613829163387

CITY STAR GROUP CO., LIMITED
Address: 31F 3A Building, Smart Park, Baolong street, Longgang district, Shenzhen, China

CITYSTAR

Smart Film— 085 Series

Size

Items			
Adhesive PDLC film	Total Thickness		0.47mm
	Cut to Sheet	Width	100-1800(mm)
		Length	100-50000(mm)
	Roll	Width	1000,1200,1500,1800(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches
Laminated PDLC film	Total Thickness		0.38mm
	Cut to Sheet	Width	100-2100(mm)
		Length	100-50000(mm)
	Roll	Width	1000,1200,1500,1800,2000,2100(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches

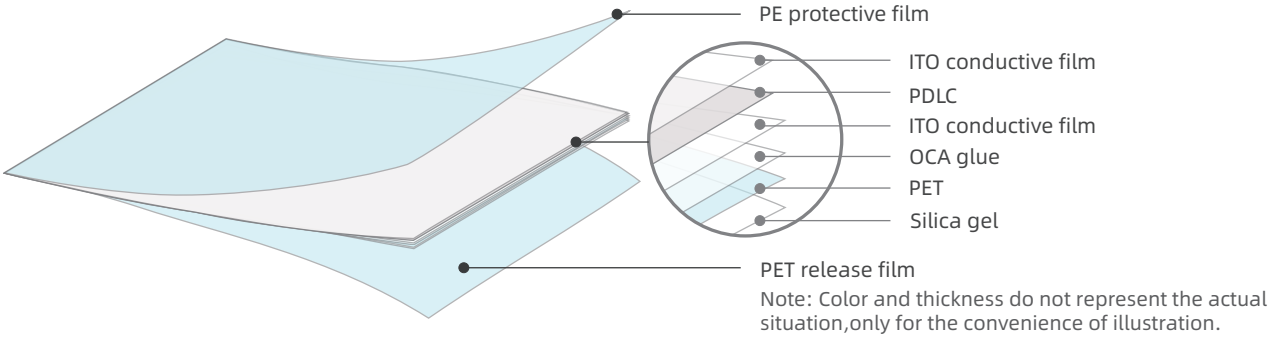
Optical Parameter

Items	ON/OFF		Test Methods/Standards
Operating voltage	ON	60V	Multimeter/Voltage Regulator,WGW
Power consumption	ON	≤ 5W/m²	Multi-parameter electric measuring instrument
Viewing angle	ON	≥ 160°	Visual Inspection
Uv blocking rate	OFF	≥ 99%	Optical teansmittance tester
Infrared blocking rate	OFF	≥ 60%	
Response time	OFF→ON	≤ 30 ms	Liquid crystal parameter integrated tester
	ON→OFF	≤ 200 ms	
Operating temperature	--	-30°C ~ 50°C	constant temperature and humidity testing machine
Life-span	--	100000 Hours	GB18910.5-2008
Switching times	--	≥ 2 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	78.0	6.62	/	/
	ON	4.53	84.0	4.56	58.0	82.0
Laminated PDLC film	OFF	94.5	78.0	5.64	/	/
	ON	4.53	84.0	3.55	58.0	81.0

Structural



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

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CITYSTAR

Smart Film— 087 Series





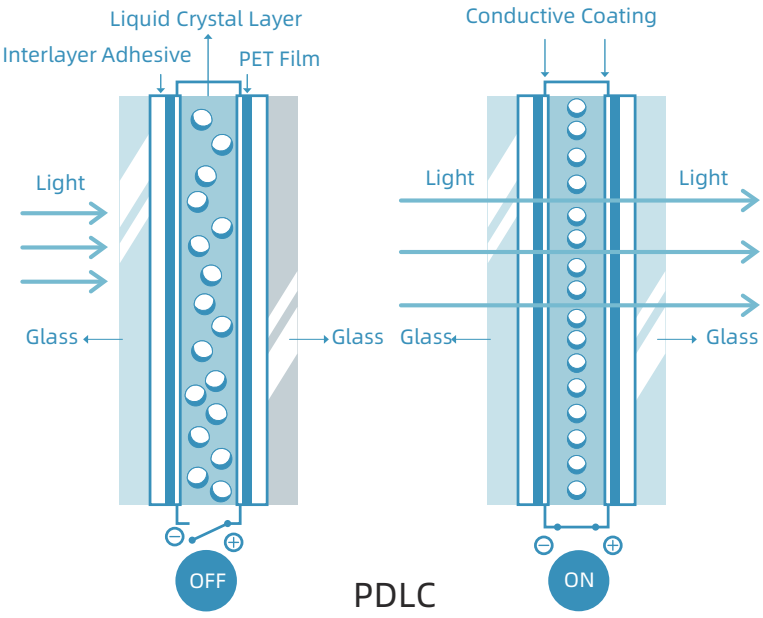
CITYSTAR 087
Smart Film

87%-89% Highest transmittance | **3-4%** 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



PDLC







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CITYSTAR

Smart Film— 087 Series

SizeSize

Items			
Adhesive PDLC film	Total Thickness		0.47mm
	Cut to Sheet	Width	100-1800(mm)
		Length	100-50000(mm)
	Roll	Width	1000,1200,1500,1800(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches
Laminated PDLC film	Total Thickness		0.38mm
	Cut to Sheet	Width	100-2100(mm)
		Length	100-50000(mm)
	Roll	Width	1000,1200,1400,1500,1800,2000,2100(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches

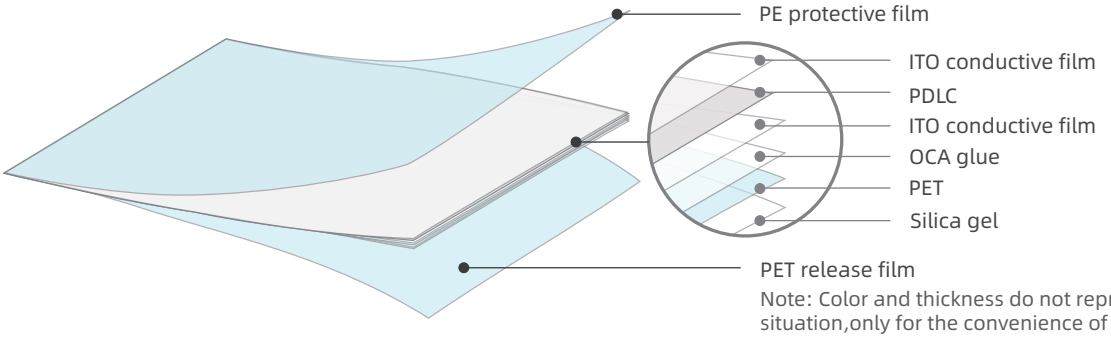
Optical Parameter

Items	ON/OFF		Test Methods/Standards
Operating voltage	ON	60V	Multimeter/Voltage Regulator,WGW
Power consumption	ON	≤ 5W/m²	Multi-parameter electric measuring instrument
Viewing angle	ON	≥ 160°	Visual Inspection
Uv blocking rate	OFF	≥ 99%	Optical teansmittance tester
Infrared blocking rate	OFF	≥ 60%	
Response time	OFF→ON	≤ 30 ms	Liquid crystal parameter integrated tester
	ON→OFF	≤ 200 ms	
Operating temperature	--	-30°C ~ 50°C	constant temperature and humidity testing machine
Life-span	--	100000 Hours	GB18910.5-2008
Switching times	--	≥ 2 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	78.0	6.95	/	/
	ON	4.53	88.0	4.71	58.0	86.0
Laminated PDLC film	OFF	94.5	78.0	5.90	/	/
	ON	4.53	88.0	3.72	58.0	86.0

Structural

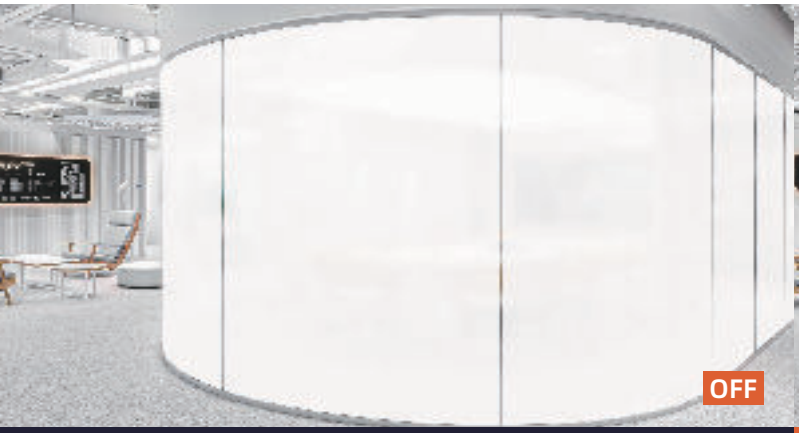


Note: Color and thickness do not represent the actual situation,only for the convenience of illustration.

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CITYSTAR

Smart Film— 091 Series





CITYSTAR 091
Smart Film

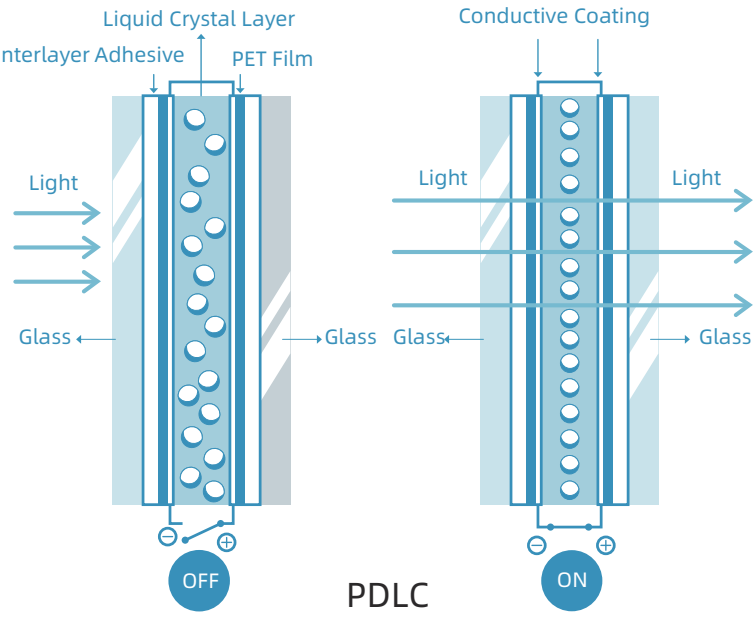
90%-92%
Highest transmittance

<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



PDLC







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CITYSTAR

Smart Film— 091 Series

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

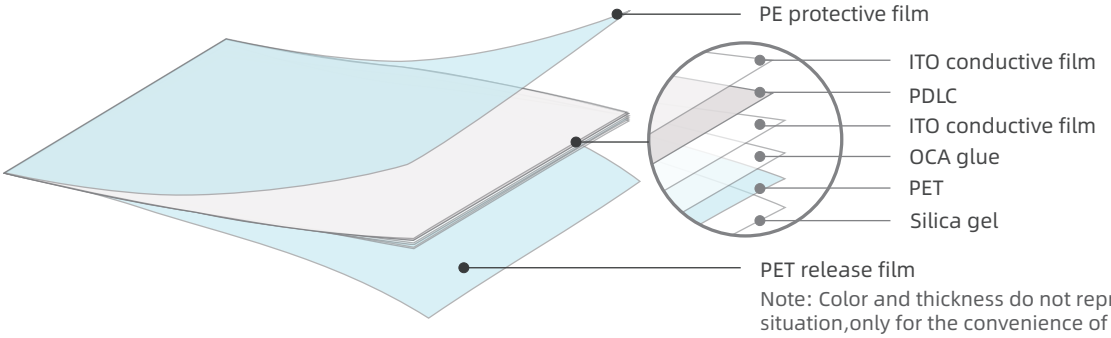
Optical Parameter

Items	ON/OFF		Test Methods/Standards
Operating voltage	ON	60V	Multimeter/Voltage Regulator,WGW
Power consumption	ON	≤ 5W/m^2	Multi-parameter electric measuring instrument
Viewing angle	ON	≥ 160°	Visual Inspection
Uv blocking rate	OFF	≥ 99%	Optical teansmittance tester
Infrared blocking rate	OFF	≥ 60%	
Response time	OFF→ON	≤ 30 ms	Liquid crystal parameter integrated tester
	ON→OFF	≤ 200 ms	
Operating temperature	--	-30°C ~ 50°C	constant temperature and humidity testing machine
Life-span	--	100000 Hours	GB18910.5-2008
Switching times	--	≥ 2 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.

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CITYSTAR

Auto Smart Film



Auto Smart Film

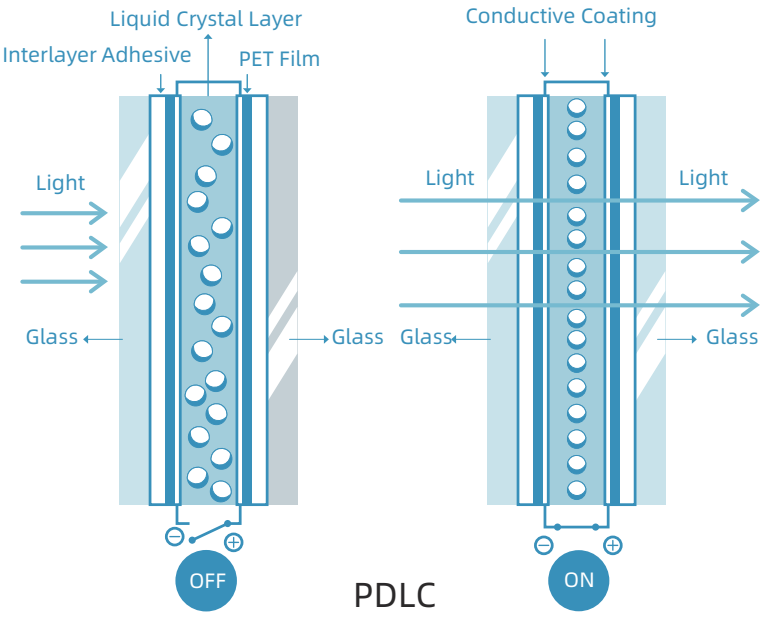
>99% Uv Block

5W/m² Low-Power

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



PDLC







CITY STAR GROUP CO., LIMITED

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CITYSTAR

Auto Smart Film

oduct

Items		
Thickness	Total thickness (without protective film)	0.13mm
	PDLC	0.12mm
	Silica gel	0.01mm
	PE protective film	130μm
	PET release film	50μm
Sheet	Width	1200,1500[1]*mm
	Length	According to customer requirements
Roll	Width	1250,1500[2]*mm
	Length	≤ 50m/Roll
Roll tube	Inner Diameter	6 inches

Note*: This width is the actual size, the width of the calculated area is 1200,1500, mm

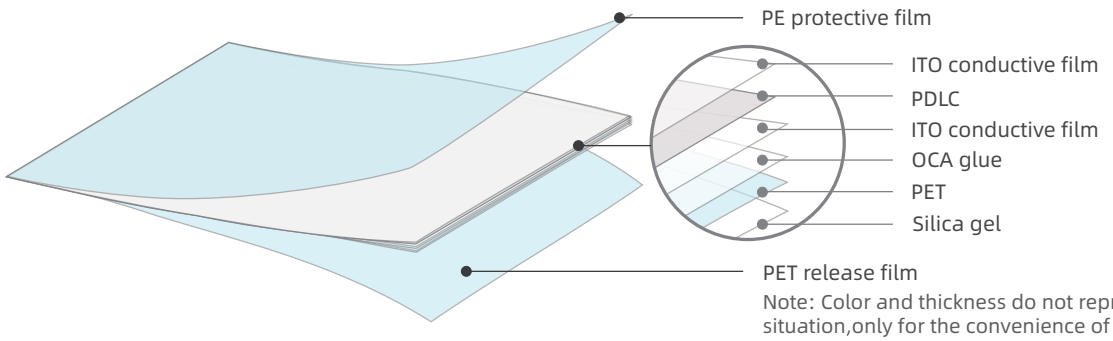
Photoelectric Performance

Items	ON/OFF		Test Methods/Standards
Operating voltage	ON	60V	Multimeter/Voltage Regulator,WGW
Power consumption	ON	≤ 5W/m^2	Multi-parameter electric measuring instrument
Viewing angle	ON	≥ 160°	Visual Inspection
Uv blocking rate	OFF	≥ 99%	Optical teansmittance tester
Infrared blocking rate	OFF	≥ 82%	
Response time	OFF→ON	≤ 30 ms	Liquid crystal parameter integrated tester
	ON→OFF	≤ 200 ms	
Operating temperature	--	-30°C ~ 95°C	constant temperature and humidity testing machine
Lifetime	--	10 -15 years	GB18910.5-2008
Switching times	--	≥ 100 ten thousand 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	94.2	51.19	5.24	/	/
	ON	2.94	56.43	3.20	38.4	55.26

Structural



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

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Colorful Film



Colorful Film

Gray/Black/Blue/Green/Orange/Red

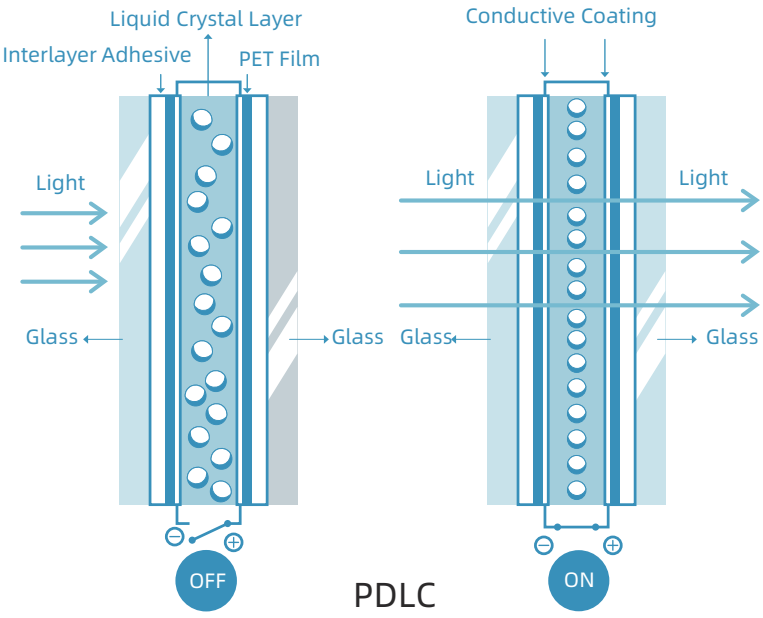
>99% Uv Block

5W/m² Low-Power

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



PDLC


GLASS CURTAIN WALL


CHILDREN'S PLAYGROUND


HOTEL ROOMS

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CITYSTAR

Colorful Film

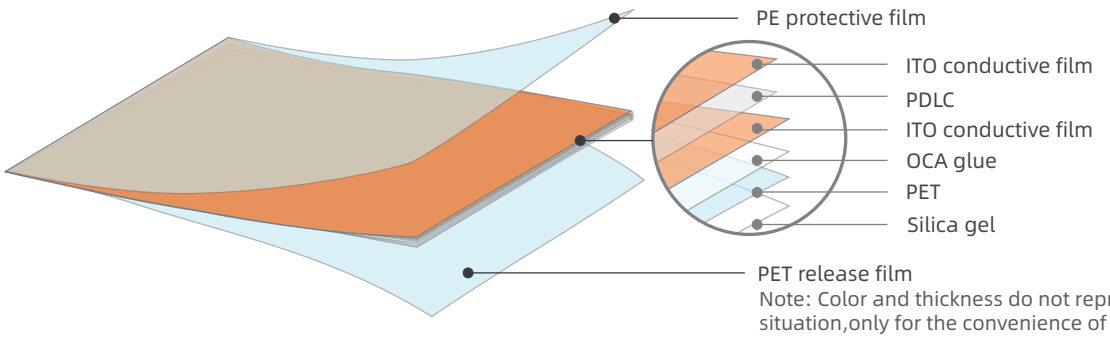
Size

Items			
Gray 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
Gray 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
Other colors adhesive PDLC film (black,blue,green,orange,red)	Total Thickness		0.54mm
	Cut to Sheet	Width	100-1500(mm)
		Length	100-50000(mm)
	Roll	Width	1500(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	≤ 5W/m^2	Multi-parameter electric measuring instrument
Viewing angle	ON	≥ 160°	Visual Inspection
Uv blocking rate	OFF	≥ 99%	Optical teansmittance tester
Infrared blocking rate	OFF	≥ 60%	
Response time	OFF→ON	≤ 200 ms	Liquid crystal parameter integrated tester
	ON→OFF	≤ 220 ms	
Operating temperature	--	-30°C ~ 50°C	constant temperature and humidity testing machine
Life-span	--	100000 Hours	GB18910.5-2008
Switching times	--	≥ 2 million times	Self-made on/off tester

Structural



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

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CITYSTAR

PNLC 反向调光膜
Reverse Smart Film





Reverse Film

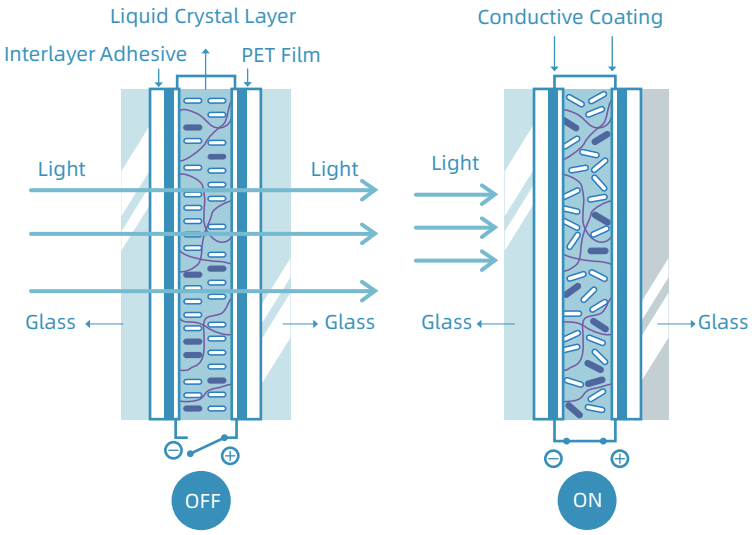
>85% Uv Block

5W/m² Low-Power

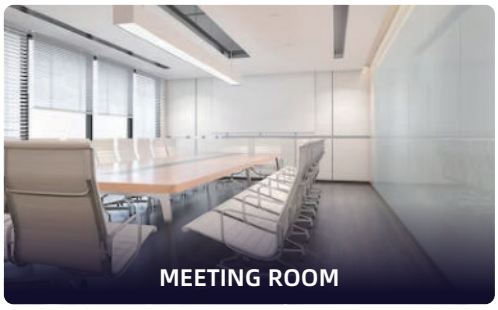
Key Features

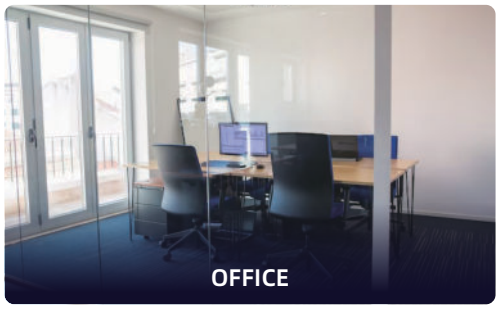
- Dynamic Privacy
- Environmental protection
- Space partition
- Touch screen and projection
- Security
- Heat-resistant and anti-scratch
- Anti-noise
- Various control methods

Technical Principles



PNLC







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CITY STAR GROUP CO., LIMITED

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CITYSTAR

PNLC 反向调光膜
Reverse Smart Film

Size

Items			
Adhesive PNLC film	Total Thickness		0.37mm
	Cut to Sheet	Width	100-1400(mm)
		Length	100-50000(mm)
	Roll	Width	1200,1400(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches
Laminated PNLC film	Total Thickness		0.28mm
	Cut to Sheet	Width	100-1400(mm)
		Length	100-50000(mm)
	Roll	Width	1200,1400(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches

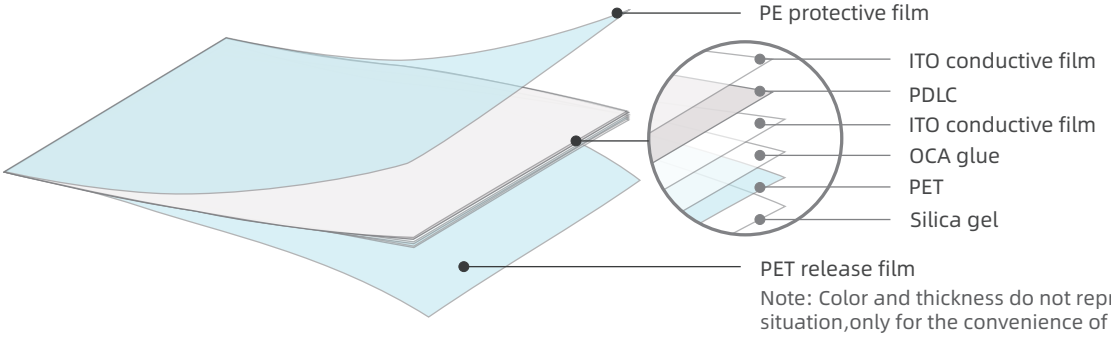
Optical Parameter

Items	ON/OFF		Test Methods/Standards
Operating voltage	ON	60V	Multimeter/Voltage Regulator,WGW
Power consumption	ON	agv 4-6/m^2	Multi-parameter electric measuring instrument
Viewing angle	ON	≥ 160°+1	Visual Inspection
Uv blocking rate	OFF	≥ 85%	Optical teansmittance tester
Infrared blocking rate	OFF	≥ 60%	
Response time	OFF→ON	≤ 200 ms	Liquid crystal parameter integrated tester
	ON→OFF	≤ 220 ms	
Operating temperature	--	-30°C ~ 50°C	constant temperature and humidity testing machine
Life-span	--	100000 Hours	GB18910.5-2008
Switching times	--	≥ 2 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	7	90.0	3.85	80.0	85.0
	ON	92	88.0	4.42	/	19.0
Laminated PDLC film	OFF	7	90.0	1.71	80.0	85.0
	ON	92	88.0	1.84	/	19.0

Structural

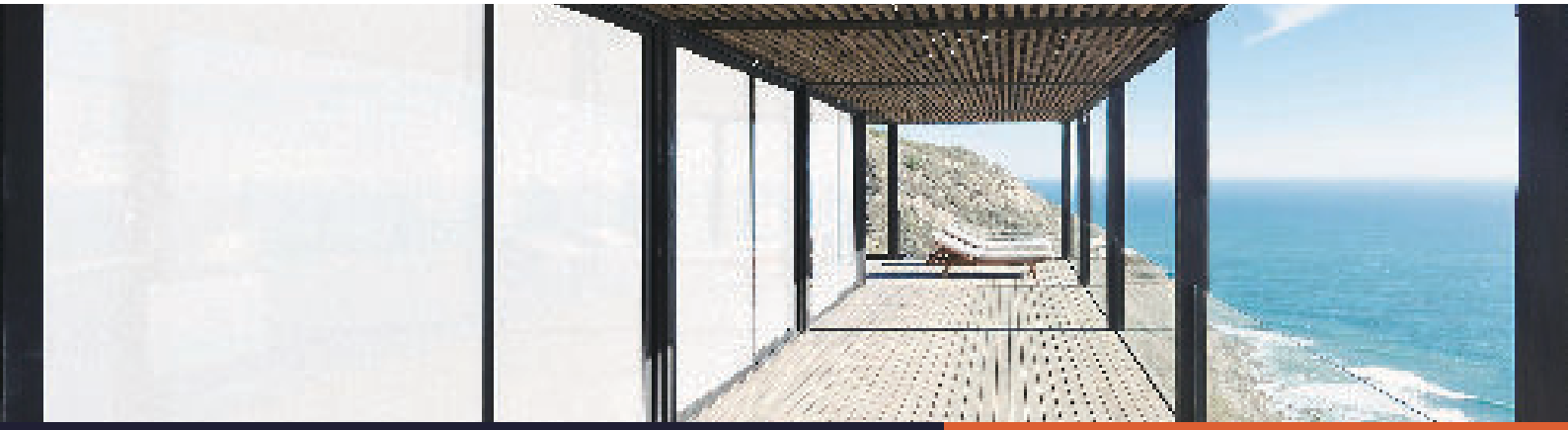


Note: Color and thickness do not represent the actual situation,only for the convenience of illustration.

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CITYSTAR

耐高温款 PDLC 正向调光膜
Warrior PDLC Smart film



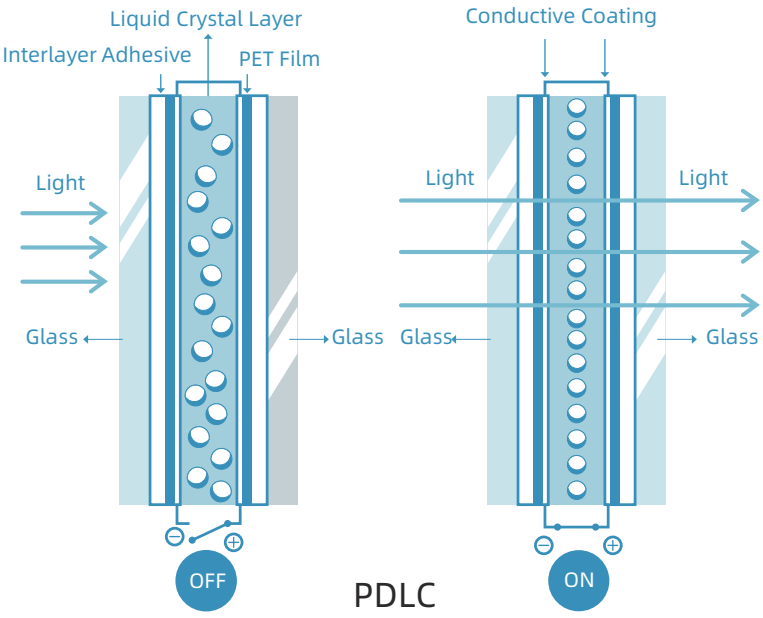
Warrior Film

105°C
High temperature resistance

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



PDLC


GLASS WALKWAY


POOL FENCE


HOT AREAS

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CITYSTAR

耐高温款 PDLC 正向调光膜
Warrior PDLC Smart film

Size

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

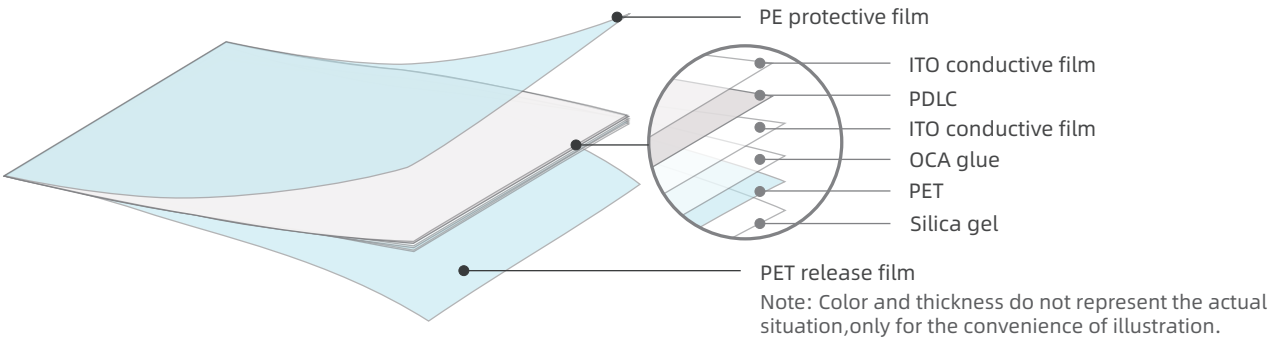
Optical Parameter

Items	ON/OFF		Test Methods/Standards
Operating voltage	ON	60V	Multimeter/Voltage Regulator,WGW
Power consumption	ON	≤ 5W/m^2	Multi-parameter electric measuring instrument
Viewing angle	ON	≥ 160°	Visual Inspection
Uv blocking rate	OFF	≥ 99%	Optical teansmittance tester
Infrared blocking rate	OFF	≥ 60%	
Response time	OFF→ON	≤ 30 ms	Liquid crystal parameter integrated tester
	ON→OFF	≤ 200 ms	
Operating temperature	--	-30°C ~ 90°C	constant temperature and humidity testing machine
Life-span	--	100000 Hours	GB18910.5-2008
Switching times	--	≥ 2 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
/	OFF	94.5	78.0	5.93	/	/
	ON	4.53	83.5	3.77	58.0	81.0

Structural



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

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