



Product Size

Classic self-adhesive smart film

Items		
Thickness	Total thickness (without protective film)	0.47mm
	PDLC	0.38mm
	AB glue	90μm
	PE protective film	35μm
	PET release film	50μm
Sheet	Width	1000,1200,1500,1800(mm)
	Length	According to customer requirements
Roll	Width	1020,1220,1520,1850(mm)
	Length	≤ 50m/Roll
Roll tube	Inner Diameter	6 inches

Note*: This width is the actual size, the width of the calculated area is 1000,1200,1500,1800 mm

Photoelectric Performance

Classic self-adhesive smart film

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 transmittance tester
Infrared blocking rate	OFF	≥ 60%	
Response time	OFF→ON	≤ 30ms	Liquid crystal parameter integrated tester
	ON→OFF	≤ 200ms	
Operating temperature	--	-30°C ~ 95°C	constant temperature and humidity testing machine
Lifetime	--	10 -15 years	GB18910.5-2008
Switching times	--	≥2 million times	Self-made on/off tester

Smart film is driven by AC power, colorless and transparent when power is added, and fogged and translucent when power is removed, and its photoelectric performance is shown in the table above.

Product Transparency / Haze

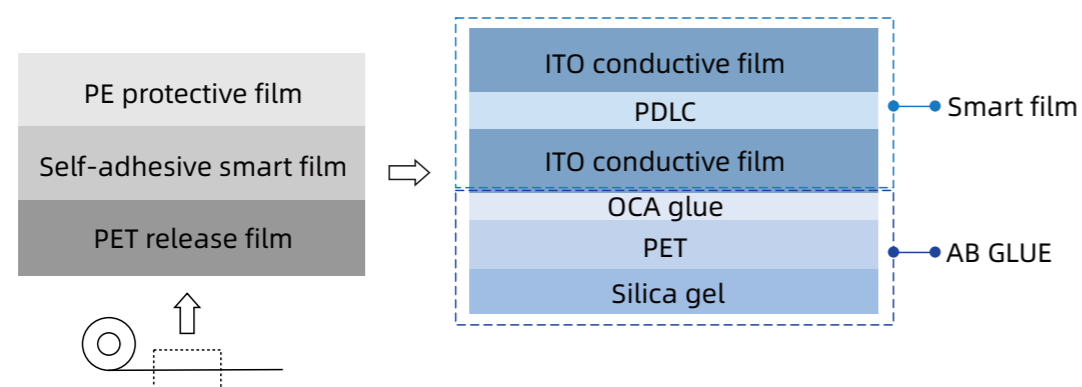
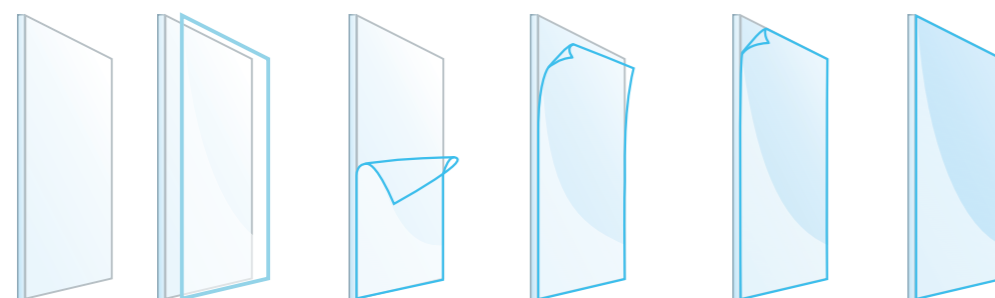
Classic self-adhesive smart film

Operating ambient temperature	Transparency	Full light tester			Parallel light tester		
		ON/OFF	Haze	Full light transmittance	b value	45° light	Parallel light
Low temperature	High transparency	OFF	94.56	81.91	5.93	/	/
		ON	4.53	85.4	3.77	58.16	83.43
	Ultra transparency	OFF	94.67	82.45	6.97	/	/
		ON	3.54	87.34	4.69	60.3	85.45
High temperature	High transparency	OFF	94.58	85.51	7.25	/	/
		ON	3.56	90.34	4.8	63.76	87.7
	Ultra transparency	OFF	94.62	80.75	6.02	/	/
		ON	4.57	85.32	3.94	59.66	83.4
High temperature	Ultra transparency	OFF	94.68	82.27	6.82	/	/
		ON	3.6	87.15	4.59	60.6	85.53
	Ultra high transparency	OFF	94.47	85.55	7.35	/	/
		ON	3.76	90.24	4.85	63.65	87.6

Classic Self-adhesive Smart Film

Self-adhesive liquid crystal smart film (hereinafter referred to as self-adhesive smart film) is covered with adhesive (AB glue) on one side of the smart film, which is used to fit the target glass.

Note: Self-adhesive PDLC films must not come into contact with water, otherwise they will be scrapped.



(Color and thickness do not represent the actual situation, only for the convenience of illustration)



Product Size

Classic laminated smart film

Items		
Thickness	Total thickness (without protective film)	0.38mm
	Conductive substrate (single layer)	188μm
	Protective film (single layer)	35μm
Sheet	Width	1000,1200,1400,1500,1800,2000mm
	Length	According to customer requirements
Roll	Width	1050,1250,1450,1550,1850,2005*mm
	Length	≤ 50m/Roll
Roll tube	Inner Diameter	6 inches

Note*: This width is the actual size, the width of the calculated area is 1000,1200,1400,1500,1800,2000 mm

Photoelectric Performance

Classic laminated smart film

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 transmittance tester
Infrared blocking rate	OFF	≥ 60%	
Response time	OFF→ON	≤ 30ms	Liquid crystal parameter integrated tester
	ON→OFF	≤ 200ms	
Operating temperature	--	-30°C ~ 95°C	constant temperature and humidity testing machine
Lifetime	--	10 -15 years	GB18910.5-2008
Switching times	--	≥2 million times	Self-made on/off tester

Smart film is driven by AC power, colorless and transparent when power is added, and fogged and translucent when power is removed, and its photoelectric performance is shown in the table above.

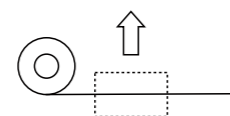
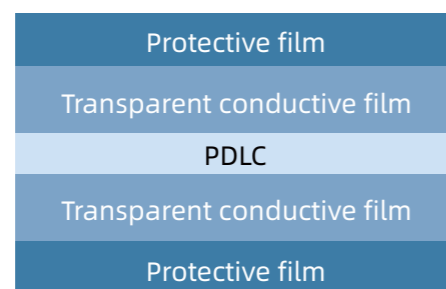
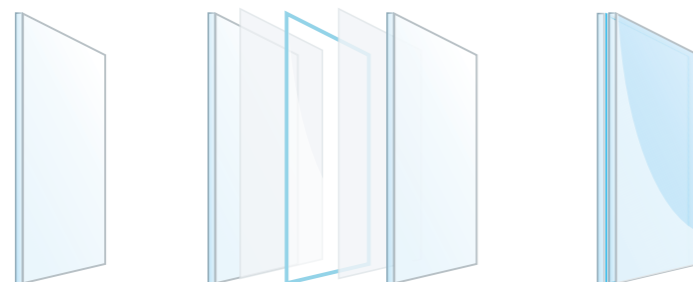
Product Transparency / Haze

Classic laminated smart film

Operating ambient temperature	Transparency	Full light tester			Parallel light tester		
		ON/OFF	Haze	Full light transmittance	b value	45° light	Parallel light
Low temperature	High transparency	OFF	94.51	81.87	5.69		
		ON	3.73	84.68	3.65	57.16	83.3
	Ultra transparency	OFF	94.65	84.5	6.79	/	/
		ON	2.55	87.87	4.51	61.65	86.32
	Ultra high transparency	OFF	94.57	86.55	7.03	/	/
		ON	2.15	91.37	4.7	64.63	89.23
High temperature	High transparency	OFF	94.62	80.86	5.79	/	/
		ON	3.92	84.3	3.81	58.43	82.6
	Ultra transparency	OFF	94.60	84	6.38	/	/
		ON	2.75	87.69	4.53	61.73	86.13
	Ultra high transparency	OFF	94.59	86.78	6.87	/	/
		ON	2.24	91.05	4.8	64.72	89.01

Classic Laminated Smart Film

Laminated liquid crystal smart film (hereinafter referred to as smart film) is non-sticky on both sides, and can be tightly compounded with flat glass through EVA film to manufacture smart laminated glass.



(Color and thickness do not represent the actual situation, only for the convenience of illustration)



Product Size

Gray smart film

Items		
Thickness	Total thickness (without protective film)	0.38mm
	Conductive substrate (single layer)	188μm
	Protective film (single layer)	35μm
Sheet	Width	1250,1500,1800mm
	Length	According to customer requirements
Roll	Width	1250,1550,1800mm
	Length	≤ 50m/Roll
Roll tube	Inner Diameter	6 inches

Note*: This width is the actual size, the width of the calculated area is 1200,1500,1800 mm

Photoelectric Performance

Gray smart film

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 transmittance tester
Infrared blocking rate	OFF	≥ 70%	
Response time	OFF→ON	≤ 30ms	Liquid crystal parameter integrated tester
	ON→OFF	≤ 200ms	
Operating temperature	--	-30°C ~ 95°C	constant temperature and humidity testing machine
Lifetime	--	10 -15 years	GB18910.5-2008
Switching times	--	≥2 million times	Self-made on/off tester

Gray smart film is driven by AC power, gray and transparent when power is added, and fogged and translucent when power is removed, and its photoelectric performance is shown in the table above.

Product Transparency / Haze

Gray smart film

Product	Operating ambient temperature	Full light tester			Parallel light tester		
		ON/OFF	Haze	Full light transmittance	b value	45° light	Parallel light
Gray laminated Smart film	/	OFF	94.38	21.67	-1.06	/	/
		ON	3.02	24.64	-3.45	15.5	24.5
Gray self-adhesive Smart film	/	OFF	94.24	26.35	0.12	/	/
		ON	3.54	29.85	-2.24	19.7	29.33

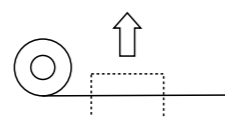
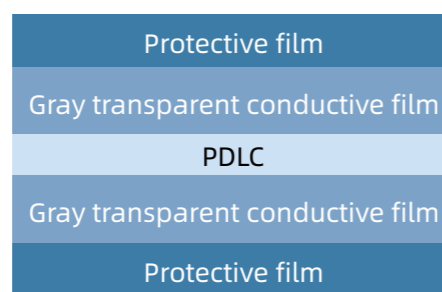
Gray Smart Film

The gray liquid crystal smart film (hereinafter referred to as the smart film) is non-sticky on both sides. It can be closely combined with flat glass through EVA film to make gray smart laminated glass; it can also be pasted with AB glue on one side to make a self-adhesive gray smart film.



Laminated

Self-adhesive



(Color and thickness do not represent the actual situation, only for the convenience of illustration)