



ACTION WINDOWS PLUS DOORS

SMART FILM AND GLASS

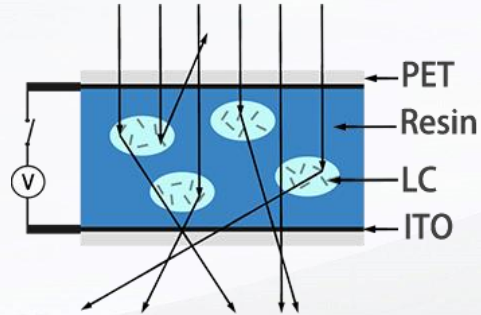


What is the smart film/glass?

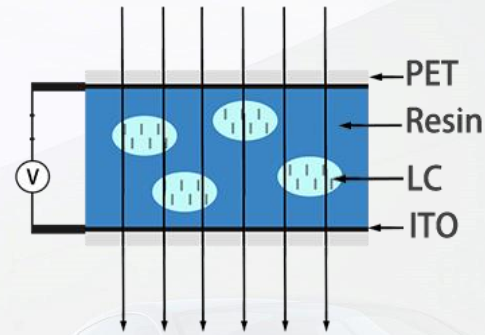


ACTION WINDOWS PLUS DOORS

This film can be switched between frosted and transparent by electric power.

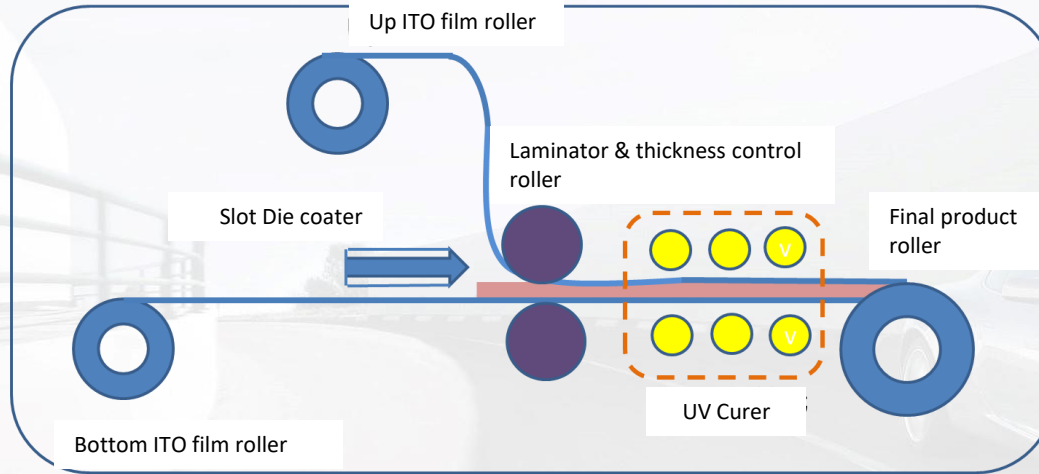


OPAQUE STATE



TRANSPARENT STATE

How we make smart film?



- Full industry chain and process chain:
 - PET base film---ITO film/coating---UV resin—liner/cover film
- UV curing, reliable lifetime.

Features of Smart Film/Glass



PRIVACY



MULTI FUNCTIONAL



INSTANT RESPONSE



ENERGY SAVING



CE CERTIFICATE



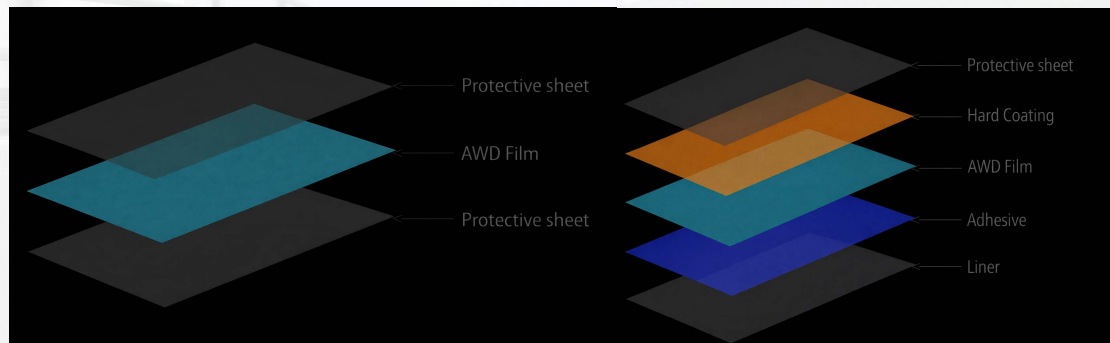
MULTIPLY CONTROL



Products of Smart Film/Glass

Smart Film

Smart Film For Lamination **Self-adhesive smart film**



Smart Glass



Custom size laminated glass, IGU glass, etc.

Specs for smart film for lamination

Type			CLEAR80	ULTRACLEAR85	AUTO85
Testing Parameters		States	Result		
Optical	VLT	ON	≥80%	≥82%	≥82%
		OFF	<70%	<70%	<75%
	HAZE	ON	≤4%	≤3%	≤3%
		OFF	≥95%	≥98%	≥95%
Electrical	Working Voltage	ON	48~65V AC	48~65V AC	48V AC
	Response Time	ON	<10ms	<10ms	<10ms
		OFF	<200ms	<200ms	<200ms
	Power Consumption	ON	≤5W/m ²	≤5W/m ²	≤2W/m ²
Environmental	Operating Temperature	ON/OFF	-10°C to 70°C	-10°C to 70°C	-30°C to 95°C
Size	Thickness		≤400μm	≤400μm	≤400μm
	Maximum Width		2000mm	2000mm	2000mm
	Maximum Length		50m	50m	50m
Color		Off	Regular color is White, other color can be ordered.		
Recommended Application			Buildings	Buildings	Auto

Smart film for lamination which is supplied to glass factories to make laminated smart glass.

Specs for self-adhesive smart film



Type			CLEAR80PS	ULTRACLEAR85PS	AUTO85PS
Testing Parameters		States	Result		
Optical	VLT	ON	≥80%	≥82%	≥82%
		OFF	<75%	<75%	<75%
	HAZE	ON	≤4.5%	≤3.5%	≤3.5%
		OFF	≥95%	≥98%	≥95%
Electrical	Working Voltage	ON	48~65V AC	48~65V AC	48V AC
	Response Time	ON	<10ms	<10ms	<10ms
		OFF	<200ms	<200ms	<200ms
	Power Consumption	ON	≤5W/m ²	≤5W/m ²	≤2W/m ²
Environmental	Operating Temperature	ON/OFF	-10°C to 70°C	-10°C to 70°C	-30°C to 95°C
Size	Thickness		≤400μm	≤400μm	≤400μm
	Maximum Width		2000mm	2000mm	2000mm
	Maximum Length		50m	50m	50m
Color		Off	Regular color is White, other color can be ordered.		
Recommended Application			Buildings	Buildings	Auto

Specs for smart glass

Type			CLEAR80G	ULTRACLEAR85G	AUTO85G
Testing Parameters		States	Result		
Optical	VLT	ON	Depends on thickness and color of glass.		
		OFF	Depends on thickness and color of glass.		
	HAZE	ON	≤4%	≤3%	≤3%
		OFF	≥95%	≥98%	≥95%
Electrical	Working Voltage	ON	48~65VAC	48~65VAC	48VAC
	Response Time	ON	<10ms	<10ms	<10ms
		OFF	<200ms	<200ms	<200ms
	Power Consumption	ON	≤5W/m ²	≤5W/m ²	≤2W/m ²
Environmental	Operating Temperature	ON/OFF	-10°C to 70°C	-10°C to 70°C	-30°C to 95°C
Size	Thickness		Depends on thickness of glass.		
	Maximum Width		2000mm	2000mm	-
	Maximum Length		6m	6m	-
Color		Off	Regular color is White, other color can be ordered.		
Recommended Application			Buildings	Buildings	Auto

Applications

Skylights



Offices



Bathrooms

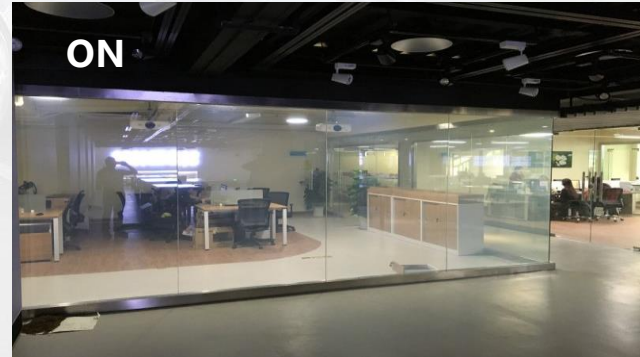


Switch between **Transparent** or **Frosted**, all as your wish !
Controlled by program/remote.

Smart film for curtain wall or windows



Smart film for offices



Glass wall in bathroom

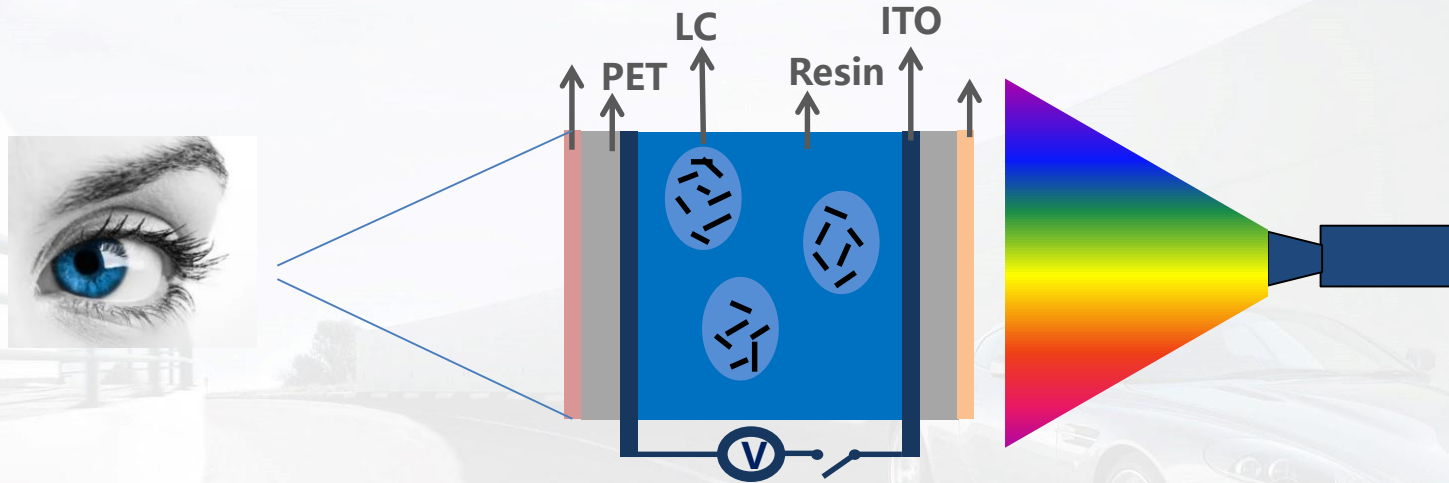
- Switchable glass , is based on the technical platform of Action Windows, developed for moist environment like bathroom
- Powered by safe voltage, superior processing to implement multiple advantages: water-resistant, moisture-resistant, heat-resistant, maintenance-free.
- Makes the best choice for modern open-type bathrooms



Glass wall in bathroom



Smart film for projections



The frosted smart glass is suit for the back projected screen in office or shops.

Smart film for projections



Voltage on:
Transparent



Voltage off:
Frosted



In frosted state:
Turns the glass window
to a projector screen
immediately

Smart film for projections



Smart film for Automotive

Electrical ON



Electrical OFF



ACTION WINDOWS PLUS DOORS



Colorful Smart Film/Glass



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Yellow



Blue



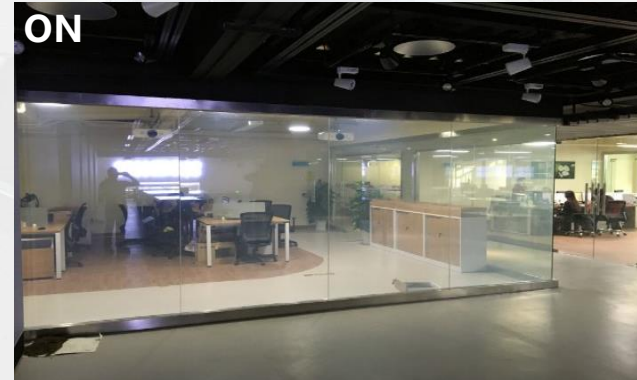
Red



Green



Smart Film/Glass Cases



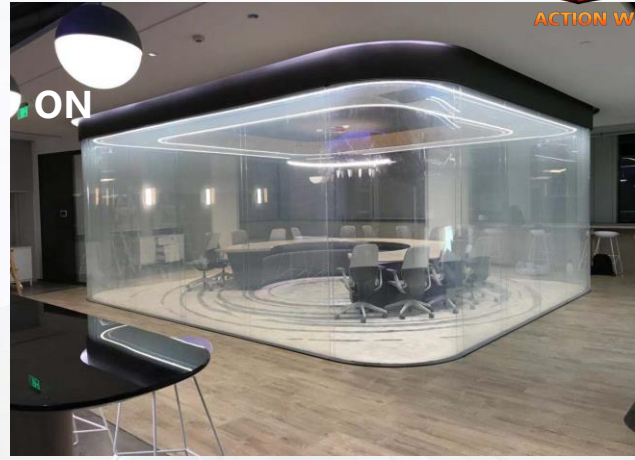
Smart film/glass Cases



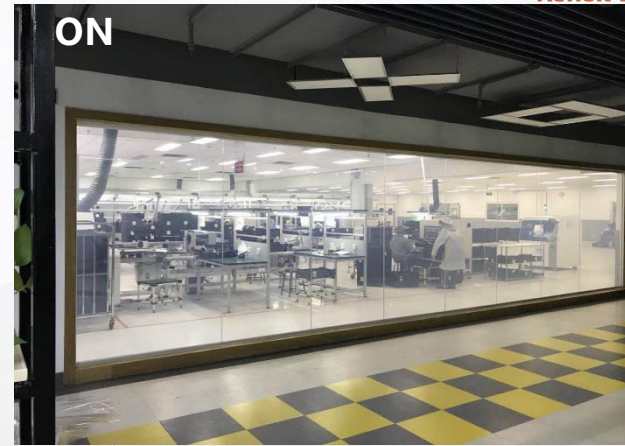
Smart Film/Glass Cases



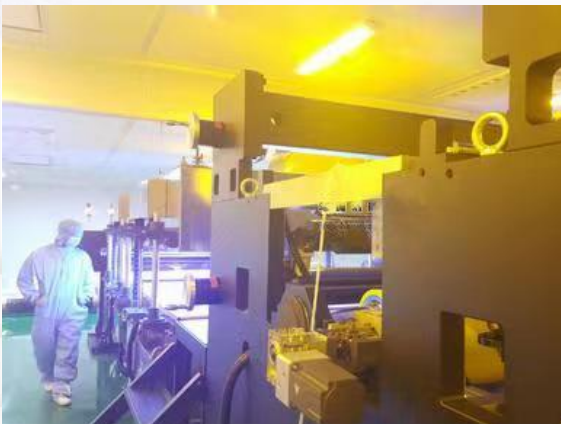
ACTION WINDOWS PLUS DOORS



Smart film/glass Cases



About Us



Products

Smart films
Smart glass
AWD

OUR CAPABILITY

AWD FILM PRODUCTION

Capable of manufacturing 5000 square meters per day.

AWD FILM PRODUCTION

High quality smart films, width up to 2000mm.

AWD FILM CUTTING AND BUSBARS OPERATION

SMART GLASS PRODUCTION

Two laminated glass lines to make high quality smart glass. The maximum size is up to 6000mm × 2000mm.



Certifications

CE certificated
Passed the test of CTC

