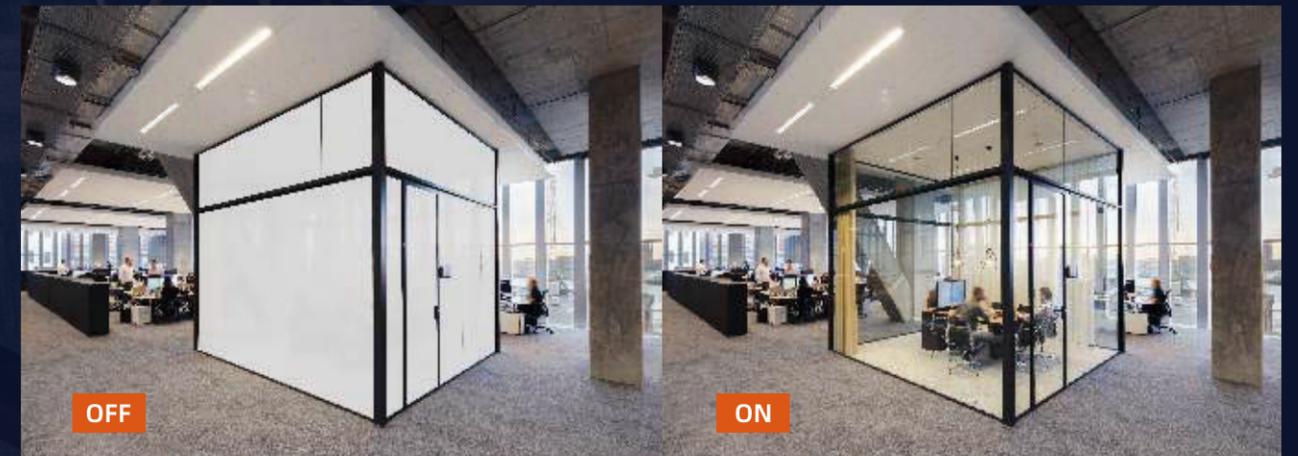# SWITCHABLE GLASS

Widely used in offices, hotels, banks,Hospitals, stores, clubs, villas and other places.

3

OFF   ON

About Switchable Glass

Switchable glass with Filmbase's premium Polymer Dispersed Liquid Crystal (PDLC) technology allows glass to turn on, off, or anywhere in between in milliseconds for diverse light control applications.

Switchable glass in the absence of an electric field, the electronically controlled PDLC film is in an opaque state.When an alternating current is applied, at which point the switchable glass changes from an opaque state (OFF) to a transparent state (ON).

Dynamic Privacy

Complete privacy or transparency when you need and want it most.

Temperature Control

Solar Control smart films reflect IR light providing cooler interiors and less HVAC costs.

High ROI

Mitigate longterm costs associated with cleaning, cooling, and signage.

Dynamic Designs

Custom shapes and patterns add style and function to windows and partitions.

Optimize Space

Replace thick studded walls with thin partitions or section open floor plans with minimalist solutions.

Easy To Clean

Eliminate fabric or electronic curtains that are hard to clean and collect germs while affecting designs.

Anti-noise

Compared with ordinary glass, the anti-noise ability of glass using Filmbase PDLC film is increased by 20%.
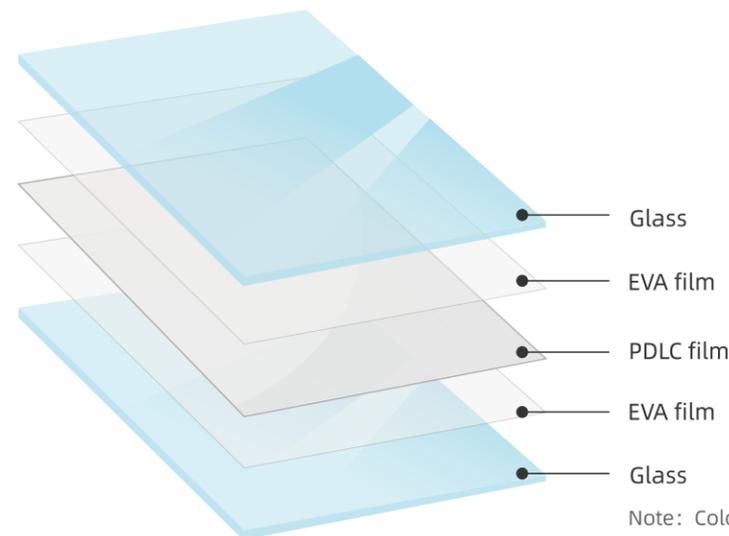
Various control methods

In order to meet your various needs, you can choose your preferred control method: remote control, wired control, infrared induction, voice control, mobile application, etc. In addition, an FM transformer can be selected to gradually change the film.

OFF

ON
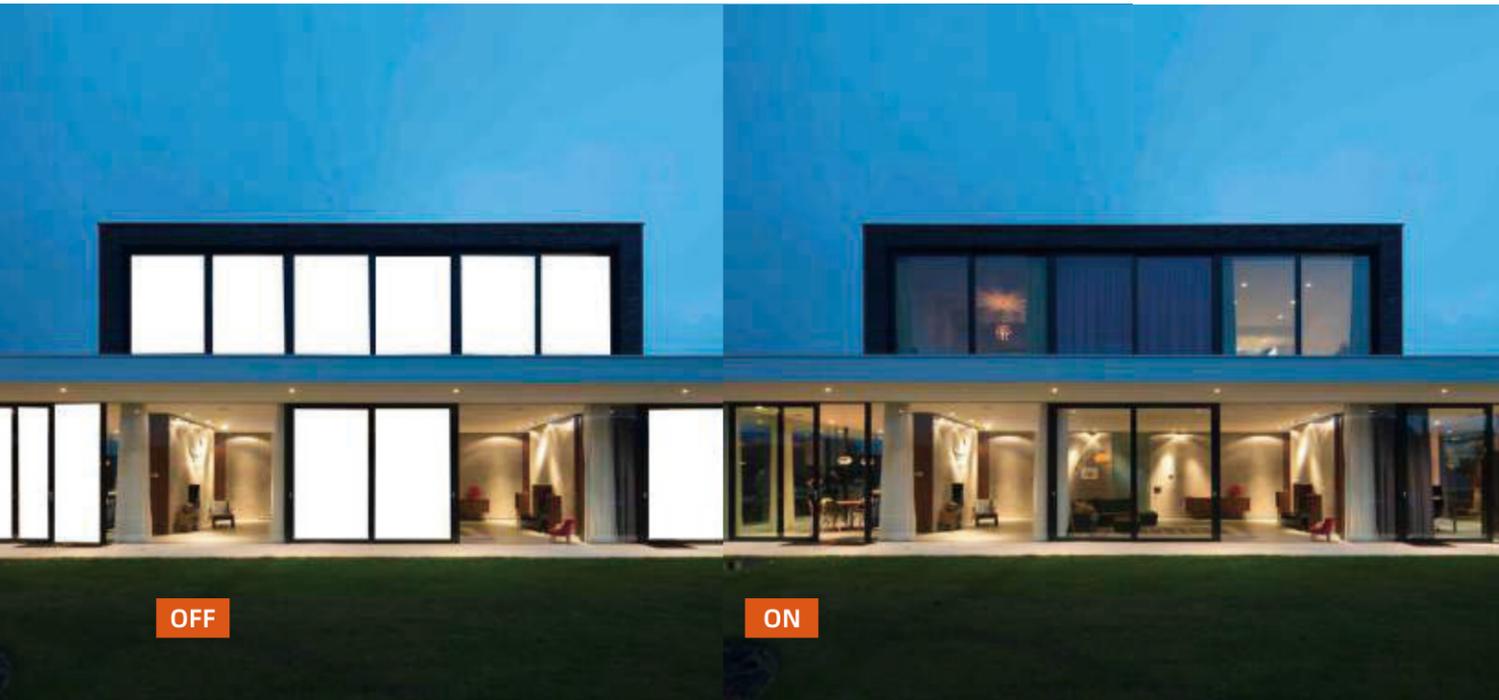
FILMBASE 0404/0505/0606

Filmbase switchable smart glass with PDLC film sandwiched in two pieces of glass of the same thickness, when power on it is transparency , when power off it becomes opaque ,with glass and smart curtain in one technology ,plus support rear projection to display videos,pictures and letters . Which can be widely used in space partition or facade where more open view ,privacy and display functions needed. 85% ,87% and 91% transmittance ,colorful available.

Glass

EVA film

PDLC film

EVA film

Glass

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

Product Parameters — FILMBASE 0404

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze（on）	6%	4%	3%
Haze（off）	94%	94%	94%
Light transmittance（on）	79%	80%	83%
Light transmittance（off）	67%	68%	70%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m²	5w/m²	5w/m²
Compatible with	Eva	Eva	Eva
Biggest size	1800×2400mm	1800×2400mm	1800×2400mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		

Product Parameters — FILMBASE 0505

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze（on）	6%	4%	3%
Haze（off）	94%	94%	94%
Light transmittance（on）	80%	81%	84%
Light transmittance（off）	67%	68%	72%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m²	5w/m²	5w/m²
Compatible with	Eva	Eva	Eva
Biggest size	2000×2800mm	2000×2800mm	2000×2800mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		

Product Parameters — FILMBASE 0606

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze（on）	6%	4%	3%
Haze（off）	94%	94%	94%
Light transmittance（on）	79%	80%	83%
Light transmittance（off）	67%	68%	70%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m²	5w/m²	5w/m²
Compatible with	Eva	Eva	Eva
Biggest size	2000×3000mm	2000×3000mm	2000×3000mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		

OFF

ON

FILMBASE 0404 plus/0505 plus/0606 plus

Filmbase switchable smart glass with PDLC film sandwiched in two super clear low-E identical thickness glasses , when power on it is transparency , when power off it becomes opaque ,with Glass and smart curtain in one technology ,plus support rear projection to display Videos ,pictures and letters. which can be widely used in space partition or facade where more open view ,privacy and display functions needed. 85%,87% and 91% transmittance ,colorful available.

Super clear glass

EVA film

PDLC film

EVA film

Super clear glass

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

Product Parameters — FILMBASE 0404 Plus

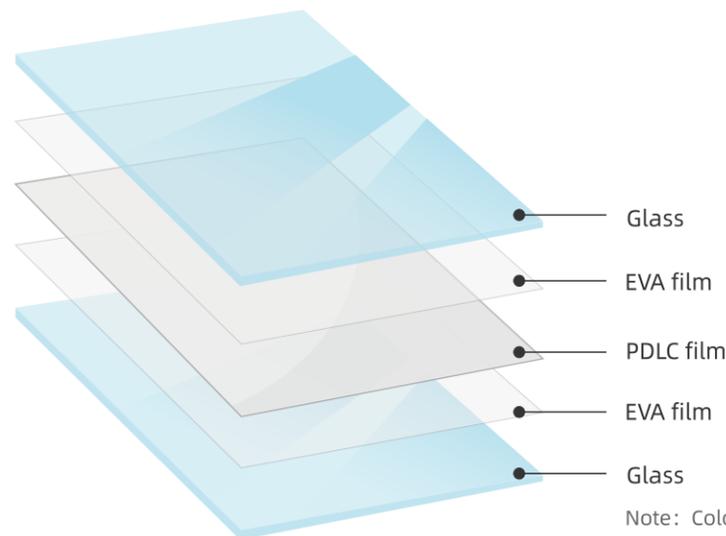| Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze（on）	6%	4%	3%
Haze（off）	94%	94%	94%
Light transmittance（on）	82%	83%	87%
Light transmittance（off）	70%	71%	75%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m²	5w/m²	5w/m²
Compatible with	Eva	Eva	Eva
Biggest size	1800×2400mm	1800×2400mm	1800×2400mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		

Product Parameters — FILMBASE 0505 Plus

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze（on）	6%	4%	3%
Haze（off）	94%	94%	94%
Light transmittance（on）	81%	82%	86%
Light transmittance（off）	69%	70%	74%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m²	5w/m²	5w/m²
Compatible with	Eva	Eva	Eva
Biggest size	2000×2800mm	2000×2800mm	2000×2800mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		

Product Parameters — FILMBASE 0606 Plus

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze（on）	6%	4%	3%
Haze（off）	94%	94%	94%
Light transmittance（on）	81%	82%	86%
Light transmittance（off）	68%	69%	72%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m²	5w/m²	5w/m²
Compatible with	Eva	Eva	Eva
Biggest size	2000×3000mm	2000×3000mm	2000×3000mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		

OFF

ON

FILMBASE 0808/1010/1212

Filmbase switchable smart glass with PDLC film sandwiched in two pieces of glass of the same thickness, when power on it is transparency , when power off it becomes opaque ,with glass and smart curtain in one technology ,plus support rear projection to display videos,pictures and letters . Which can be widely used in space partition or facade where more open view ,privacy and display functions needed. 85% ,87% and 91% transmittance ,colorful available.

Glass

EVA film

PDLC film

EVA film

Glass

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

Product Parameters — FILMBASE 0808

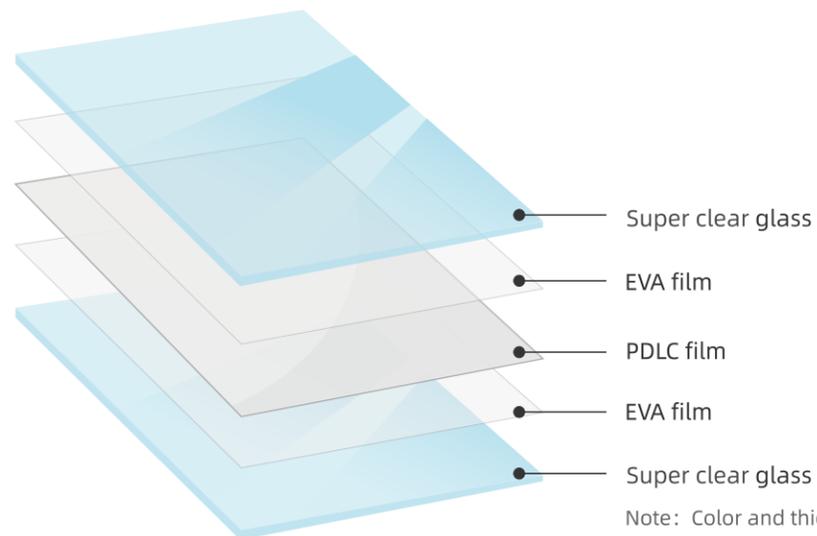| Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze（on）	6%	4%	3%
Haze（off）	94%	94%	94%
Light transmittance（on）	78%	79%	82%
Light transmittance（off）	64%	65%	68%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m²	5w/m²	5w/m²
Compatible with	Eva	Eva	Eva
Biggest size	2000×4000mm	2000×4000mm	2000×4000mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		

Product Parameters — FILMBASE 1010

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze（on）	6%	4%	3%
Haze（off）	94%	94%	94%
Light transmittance（on）	69%	70%	73%
Light transmittance（off）	55%	56%	59%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m²	5w/m²	5w/m²
Compatible with	Eva	Eva	Eva
Biggest size	2000×5000mm	2000×5000mm	2000×5000mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		

Product Parameters — FILMBASE 1212

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze（on）	6%	4%	3%
Haze（off）	94%	94%	94%
Light transmittance（on）	65%	66%	67%
Light transmittance（off）	49%	50%	51%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m²	5w/m²	5w/m²
Compatible with	Eva	Eva	Eva
Biggest size	2000×6000mm	2000×6000mm	2000×6000mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		

OFF

ON

FILMBASE 0808 plus/1010 plus/1212 plus

Filmbase switchable smart glass with PDLC film sandwiched in two super clear low-E identical thickness glasses , when power on it is transparency , when power off it becomes opaque ,with Glass and smart curtain in one technology ,plus support rear projection to display Videos ,pictures and letters. which can be widely used in space partition or facade where more open view ,privacy and display functions needed. 85%,87% and 91% transmittance ,colorful available.

- Super clear glass
- EVA film
- PDLC film
- EVA film
- Super clear glass

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

Product Parameters — FILMBASE 0808 Plus

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze (on)	6%	4%	3%
Haze (off)	94%	94%	94%
Light transmittance (on)	81%	82%	84%
Light transmittance (off)	67%	68%	71%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m²	5w/m²	5w/m²
Compatible with	Eva	Eva	Eva
Biggest size	2000×4000mm	2000×4000mm	2000×4000mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		

Product Parameters — FILMBASE 1010 Plus

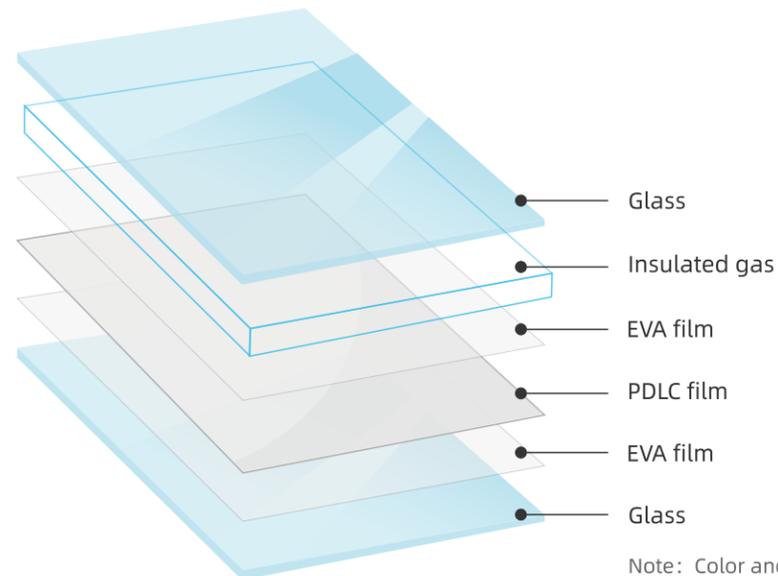| Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze (on)	6%	4%	3%
Haze (off)	94%	94%	94%
Light transmittance (on)	80%	81%	85%
Light transmittance (off)	64%	65%	67%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m²	5w/m²	5w/m²
Compatible with	Eva	Eva	Eva
Biggest size	2000×5000mm	2000×5000mm	2000×5000mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		

Product Parameters — FILMBASE 1212 Plus

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze (on)	6%	4%	3%
Haze (off)	94%	94%	94%
Light transmittance (on)	80%	81%	84%
Light transmittance (off)	61%	62%	65%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m²	5w/m²	5w/m²
Compatible with	Eva	Eva	Eva
Biggest size	2000×6000mm	2000×4000mm	2000×6000mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		

OFF

ON
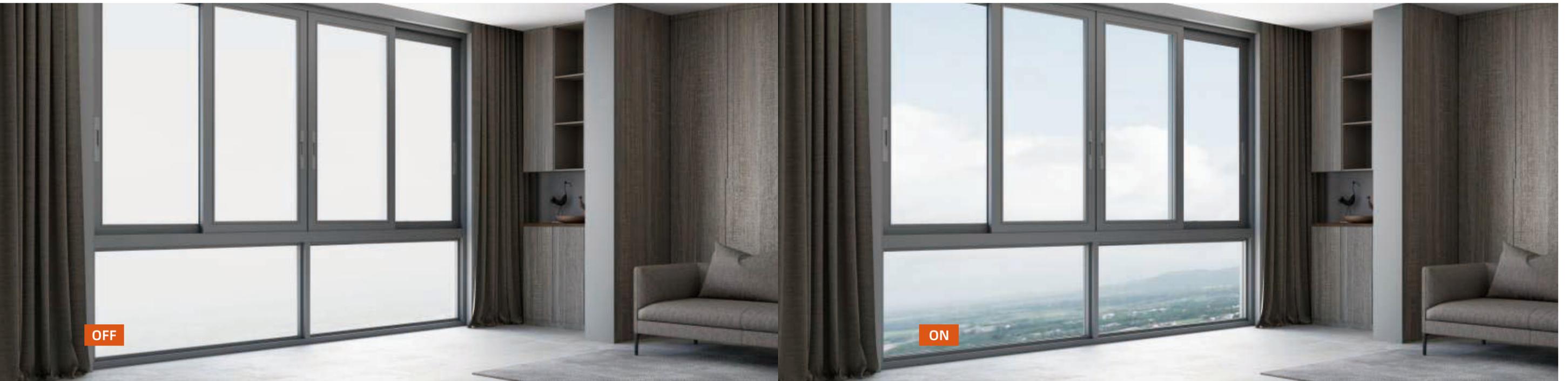
FILMBASE Smart facade glass

Switchable glass is a new type of laminated structural glass, combining PDLC film between two layers of glass at high temperature and high pressure after the overall formation of bonding. With a controller, it can instantly switch between opaque and transparent.

— Glass

— Insulated gas

— EVA film

— PDLC film

— EVA film

— Glass

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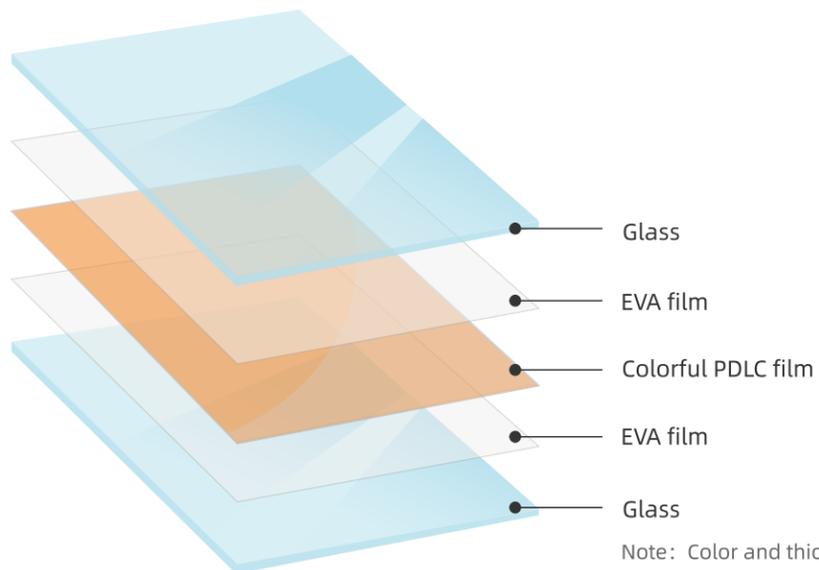
Product Parameters

FILMBASE Smart facde glass

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze（on）	6%	4%	3%
Haze（off）	94%	94%	94%
Light transmittance（on）	72%	75%	77%
Light transmittance（off）	60%	63%	65%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m²	5w/m²	5w/m²
Compatible with	Eva	Eva	Eva
Biggest size	1800×3600mm	1800×3600mm	1800×3600mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		

OFF

ON

FILMBASE Art glass

Switchable glass is a new type of laminated structural glass, combining color PDLC film between two layers of glass at high temperature and high pressure after the overall formation of bonding. With a controller, it can instantly switch between opaque and transparent.
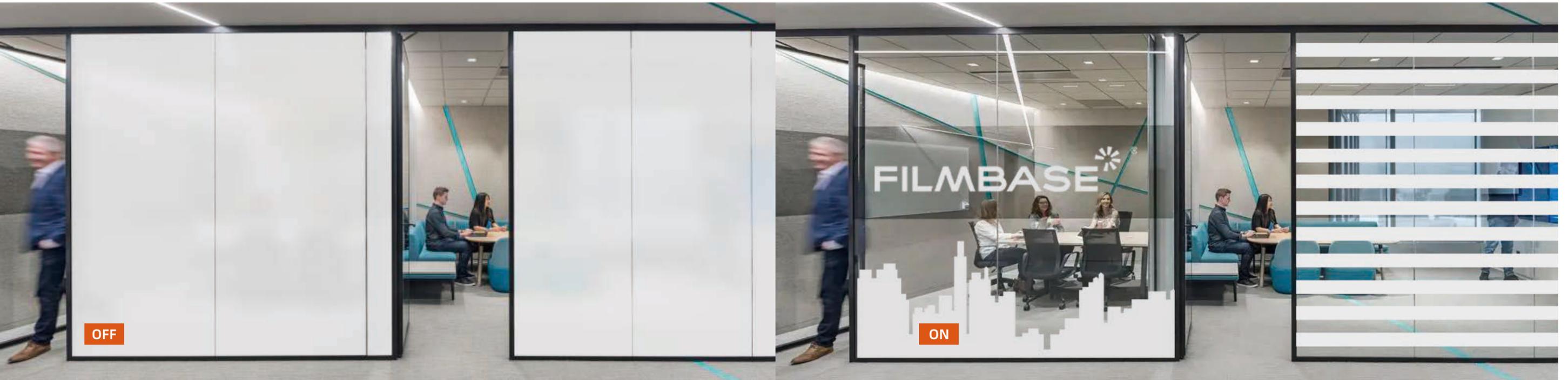

- Glass
- EVA film
- Colorful PDLC film
- EVA film
- Glass

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

Product Parameters

FILMBASE Art glass

Film color	Gray	Black	Blue	Green	Orange	Red
Uv block	>99%	>99%	>99%	>99%	>99%	>99%
Ir block	>86%	>86%	>86%	>86%	>86%	>86%
Power consumption	5w/m²	5w/m²	5w/m²	5w/m²	5w/m²	5w/m²
Compatible with	Eva	Eva	Eva	Eva	Eva	Eva
Input voltage	100-120v 60Hz /220-240v 50hz					
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other					

OFF

ON

FILMBASE Limited edition glass

Switchable glass is a new type of laminated structural glass, combining PDLC film between two layers of glass at high temperature and high pressure after the overall formation of bonding. With a controller, it can instantly switch between opaque and transparent.
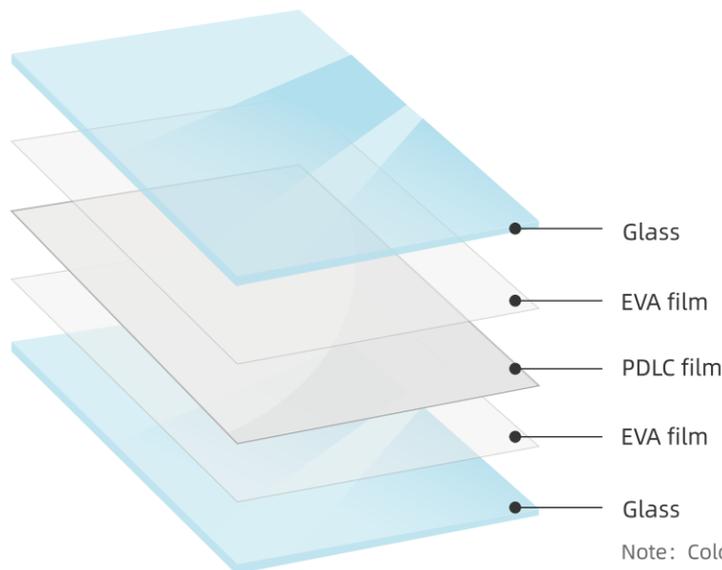
Product Parameters — FILMBASE Limited edition glass

Items	087 PDLC film
Film color	White
Uv block	>99%
Ir block	>86%
Power consumption	5w/m²
Compatible with	Eva
Input voltage	100-120v 60Hz /220-240v 50hz
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other

Glass

EVA film

PDLC film

EVA film

Glass

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