

Clarity



PRIVACY GLASS
SOLUTIONS™

Privacy At the Flick of a Switch

Clarity by Privacy Glass Solutions is a cutting-edge switchable glass, offering instant privacy with a sleek, modern design. With a simple on/off switch, it shifts from clear to opaque in seconds, eliminating the need for blinds.

Available in single or double-glazed units, Clarity enhances both privacy and thermal performance, providing comfort, control, and seamless design for any space.

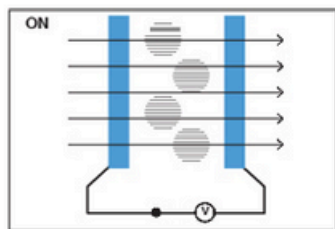


Benefits

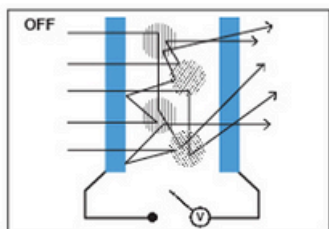
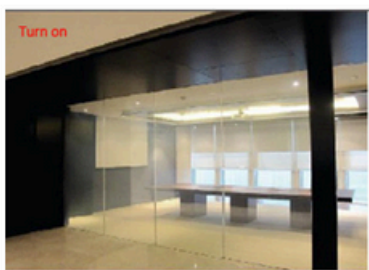
- Instant control of privacy
- High UV protection
- Superior light transmittance
- Low haze Factor (<3%)
- 80,000 switch life
- 50,000+ hour lifespan
- Low power consumption
- Flexible production size
- Can be retrofitted
- Single or double glazed laminate glass panels
- Fire-rated glass available
- Suitable for commercial and residential use

APPLICATIONS

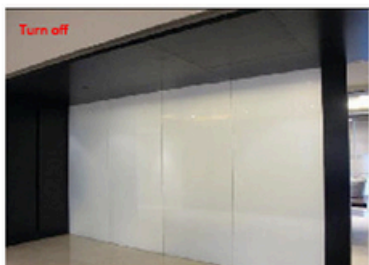
- Healthcare
- High Security Environments
- Commercial
- Education
- Residential



When electricity is applied, the liquid crystal molecules line up, the incident light passes through, and Clarity looks clear.

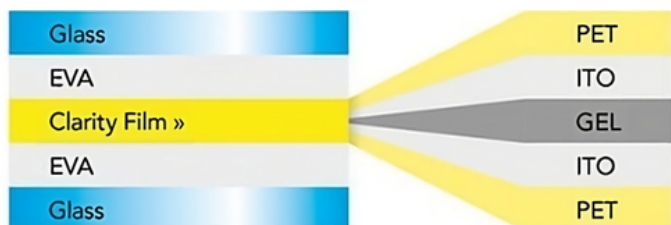


When the power is off, the liquid crystal molecules are randomly oriented which scatters incident light, and Clarity becomes translucent.



Construction

PDLC (Polymer Dispersed Liquid Crystal) film is laminated between two panes of glass, including fire rated panes



Clarity Film (PDLC) consists of a GEL Center Layer between two ITO Layers and two PET Protective Layers.

Sizes

Panels

Custom Sizes up to 35 sq ft

Transformer Capacity

One transformer for every 96 sq ft

Specifications

Visible Light Transimission

ON > 89% OFF >=2%

Haze

ON < 4% OFF >= 91%

Viewing Angle of Screen

ON <160 Degrees

UV Blocking

ON & OFF >=99%

Operating Voltage

ON 60V AC

Response Time

OFF > ON < 10ms
ON > OFF < 200ms

Power Consumption

< 5W/sqm

Color

White when OFF

Working Temperature

-30°C to 50°C

Storage Temperature

-30°C to 70°C

Life Span

ON >15 years

Switch Life

>2 million times

