CLARITY
Privacy at the flick of a switch

SWITCHABLE PRIVACY GLASS

Privacy on demand.

WHAT IS CLARITY™?

Clarity™ is switchable privacy glass that changes from transparent to private in milliseconds. Polymer Dispersed Liquid Crystal (PDLC) film is laminated securely between two panes of glass, creating a complete glazing solution with no exposed privacy components. When powered, the glass becomes transparent. When power is removed, it returns to a translucent state that obscures visibility while continuing to transmit light.



POWER ON - TRANSPARENT | POWER OFF - PRIVATE

PRODUCT HIGHLIGHTS

- Millisecond switching
- Low-haze clear state
- Power-off privacy
- 99% or greater UV blocking
- Low power consumption
- Up to 75 sq. ft.
- Laminated or IGU
- Multiple control options
- Synchronized panel control
- Custom sizes and shapes
- Multiple film colors
- Specialty glass options
- 20+ year indoor lifespan

WHY CLARITY™?

Instant Privacy Control
Change between transparent and private states in milliseconds.

Maintain Natural Light
Obscure visibility without making the space dark.

Clean, Glass Surface
The privacy technology is protected within the laminated glass.

Flexible Integration
Choose from multiple constructions, controls, and configurations.

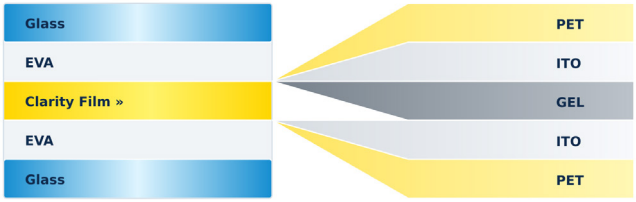
COMMON APPLICATIONS

- Healthcare
- Commercial
- Education
- Hospitality
- High-security environments

STANDARD CONSTRUCTION

Clarity™ uses Polymer Dispersed Liquid Crystal (PDLC) technology laminated between two panes of glass.

Clarity™ film consists of a GEL center Layer between two ITO layers and two PET protective layers.



GLASS CONFIGURATIONS

Low-E
Lead
Bullet-resistant
Fire-rated
Laser polymer

SPECIFICATIONS	
CONSTRUCTIONS	**Laminated:** Glass + PDLC Film + Glass **Insulated Glass Unit:** Laminated Switchable Glass + Spacer + Glass
FILM COLOR	White, Light Blue, Light Green, Pink, Light Grey
GLASS COLOR	Low-Iron (other glass-color options may be available upon request)
GLASS TYPE	Annealed, Tempered, Specialty Glass
GLASS THICKNESS	3/16″, 1/4″, 3/8″ (other thickness options may be available upon request)
MAX GLASS SIZE	80″ W × 135″ H (75 sq. ft.)
SPACER WIDTH (IGU ONLY)	3/16″ ~ 3/4″
SHAPE	Any shape (notches and holes)
TEMPERATURE	Storage -20°C ~ 70°C (-4°F ~ 158°F) Operation -10°C ~ 60°C (14°F ~ 140°F)
ELECTRICAL	Driving voltage 60 V AC Power less than 3.7 W/m² Frequency rate 50-60 Hz
SWITCHING TIME	Off → On: ~200 ms On → Off: ~600 ms
OPTICAL	Haze: On-state <3% | Off-state >95% Visible Light Transmission: On-state >77% | Off-state <6%
LIFESPAN	Greater than 20 years (indoors) (when used, installed, and stored properly per the usage, storage and installation specifications referenced herein)

PROJECT-SPECIFIC OPTIONS

Available constructions vary according to project requirements. Contact PGS to confirm the appropriate glass makeup, thickness, shape, and specialty performance.

HOW CLARITY™ WORKS

Clarity™ relies on an active electrical charge to remain transparent. In the event of a total building power loss, the system immediately defaults to its frosted privacy state, maintaining visual privacy during the outage.



TRANSFORMER POWER SUPPLY

The transformer is the heart of the Clarity™ system. It safely converts standard building power (110V AC) into the precise low-voltage power required to operate the smart glass.

Transformer size is selected based on the total connected glass area and system configuration. Coverage capacities are shown below.

TRANSFORMER RATING	TYPICAL COVERAGE AREA
30W	53.81 sq. ft. (5 m²)
50W	86.11 sq. ft. (8 m²)
100W	161.45 sq. ft. (15 m²)



CONTROL ECOSYSTEM

Wireless Handheld Remotes
Each transformer is paired with a dedicated wireless remote control. One remote controls one transformer circuit, allowing precise operation of assigned glass zones.

Building Automation Integration
Integration with compatible building automation systems.

Standard Wall Switches
Wired operation for individual panels or designated glass zones.

Multi-Panel Synchronization
Multiple Clarity™ panels may be connected to a single transformer, provided the total glass area remains within the transformer's rated capacity.



CLARITY VIEW

Battery-powered privacy for entry doors and difficult-to-wire openings

Clarity VIEW is a completely wireless, self-contained switchable privacy glass solution designed for seamless retrofits and clean, wire-free architectural aesthetics.

KEY FEATURES

- Localized, independent control
- Push-button operation
- No external power cords, complex building wiring, or wall transformers
- Suitable for glass doors, movable partitions, and existing windows

IDEAL APPLICATIONS

Entry doors, controlled-access openings, offices, and existing spaces with limited access to electrical power.

CLARITY WAVE

Touchless control for compatible Clarity™ systems

Clarity WAVE adds gesture-activated operation to compatible Clarity™ systems. A simple hand movement changes the glass between transparent and private without requiring contact with a conventional wall switch.

KEY FEATURES

- Gesture-activated Technology
- Instant privacy
- Reduced contact
- Easy to clean
- Customizable and convenient
- Enhanced security

IDEAL APPLICATIONS

Healthcare, clinical, commercial, educational, and other high-touch environments.

