



PDLC SMART FILM 87-88% | Enhanced Clarity Series

Professional Switchable Privacy Glass Solution

Enhanced-clarity PDLC Smart Film combining excellent optical performance, reliable privacy control, and versatile application possibilities for commercial, residential, healthcare, and hospitality environments.

Product Overview

The PDLC 87-88% Smart Film is one of the most popular options within the PDLC range, offering an excellent balance between transparency, aesthetics, and privacy performance.

When powered, the film becomes highly transparent, allowing natural light to pass through the glass while preserving a clean and refined appearance. When power is removed, the liquid crystal molecules disperse and the glass transitions to an opaque state, providing immediate privacy whenever required.

With a reduced haze level compared to standard PDLC films, the 87-88% series delivers noticeably improved visual clarity while maintaining the same reliable privacy control, low energy consumption, and UV protection expected from modern smart film technology.

This series is particularly suitable for projects where enhanced transparency and improved aesthetics are important, without moving into the premium ultra-high-transparency category.

Key Benefits

- ✓ Instant Privacy Control
 - ✓ UV Protection >99%
 - ✓ Suitable for Existing Glass
 - ✓ Improved Safety in Case of Glass Breakage
- ✓ Cost-Effective Solution
 - ✓ Low Power Consumption
 - ✓ Smart Home Integration Ready
 - ✓ Suitable for Projection Applications

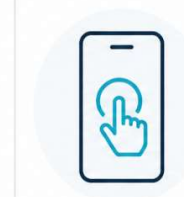
Typical Applications

- Commercial Offices:** Quality office partitions, executive offices, conference rooms, and meeting spaces.
- Exhibition Spaces:** Conference halls, showrooms, museums, and exhibition environments.
- Hospitality:** Hotels, hospitality venues, premium retail environments, and guest areas.
- Healthcare:** Hospitals, clinics, consultation rooms, and healthcare facilities.
- Residential:** Luxury homes, apartments, internal partitions, and design-focused living spaces.

Technical Specifications

PARAMETER	SPECIFICATION
FILM TYPE:	Self-Adhesive PDLC Smart Film
LIGHT TRANSMISSION (ON):	87-88%
HAZE (ON):	3-4%
OPERATING VOLTAGE:	60V AC
POWER CONSUMPTION:	≤5 W/m ²
VIEWING ANGLE:	≥160°
UV REJECTION:	≥99%
IR REJECTION:	≥60%
RESPONSE TIME (OFF→ON):	≤30 ms
RESPONSE TIME (ON→OFF):	≤200 ms
OPERATING TEMPERATURE:	-30°C to +50°C
EXPECTED LIFESPAN:	100,000 Hours
SWITCHING CYCLES:	≥2 Million
AVAILABLE WIDTH:	Up to 1800 mm

Control Options

					
Wall Switch	Remote Control	Motion Sensor	Mobile App	Smart Home	BMS Integration

Professional Installation by Bullconcept

Bullconcept Smart Solutions Ltd. provides complete turnkey PDLC Smart Film solutions, including technical consultation, site assessment, product selection, professional installation, system commissioning, and after-sales support.

Every project is individually evaluated to ensure the most suitable film type, control method, and installation approach for the specific environment and customer requirements.

Maintenance & Care

Detailed cleaning and maintenance instructions are available in the PDLC Smart Film Care & Maintenance Guide, available at <https://smartfilm.bullconcept.com>.

Important Notes

This product is intended to be installed, connected, and commissioned by qualified professionals. Final suitability depends on the project environment, glass condition, dimensions, control requirements, and site-specific installation conditions.

Ready to discuss your project?

Contact our team for a free consultation.

Contact



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