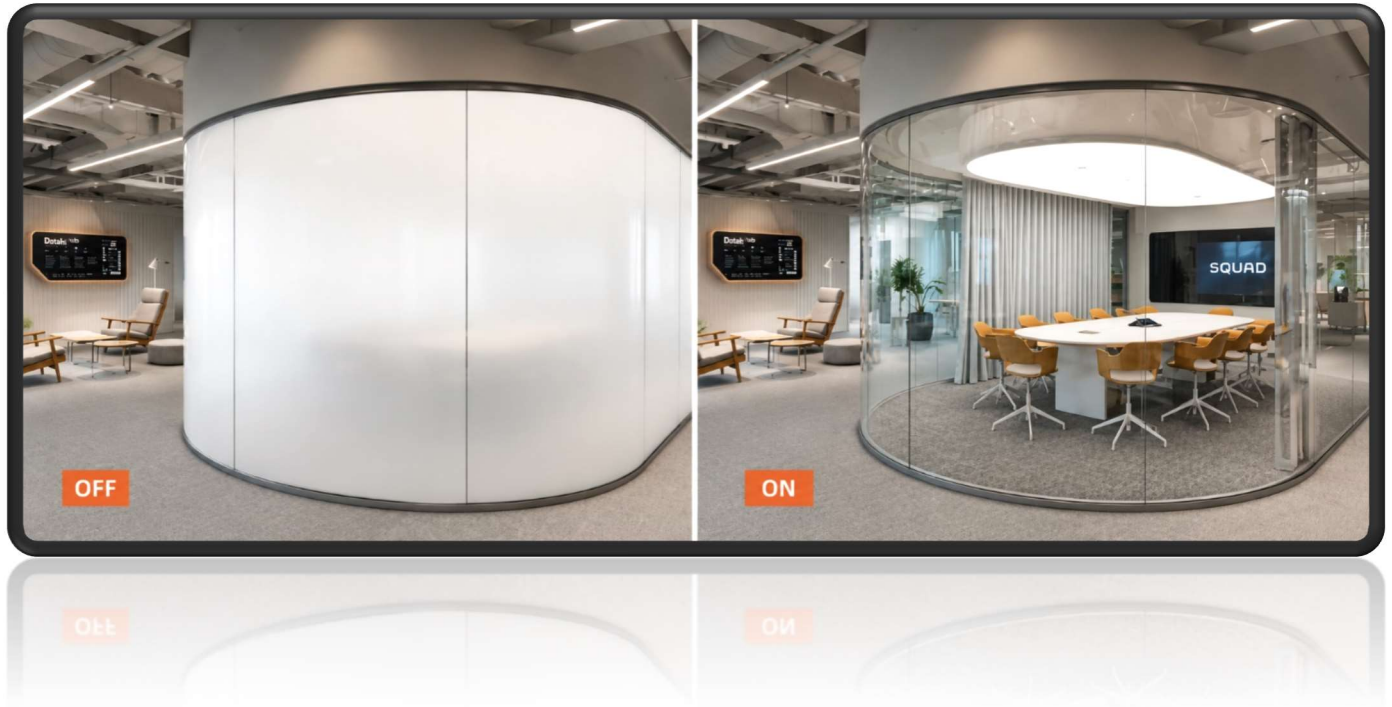




PDLC SMART FILM 91-92% | Premium Series

Professional Switchable Privacy Glass Solution

Premium-grade PDLC Smart Film delivering exceptional optical clarity, ultra-low haze, and uncompromising privacy control for luxury residential, hospitality, commercial, and high-security applications.

Product Overview

The PDLC 91-92% Smart Film represents the premium segment of PDLC technology, offering the highest level of transparency currently available within the Bullconcept Smart Film range.

When powered, the film achieves exceptional optical clarity with an ultra-low haze level, preserving the natural appearance of the underlying glass while allowing abundant natural light transmission. When power is removed, the liquid crystal molecules disperse and the glass instantly transitions to an opaque state, providing reliable privacy whenever required.

Designed for projects where visual quality, transparency, and aesthetics are critical, the 91-92% series delivers a near-glass viewing experience while maintaining all the functional benefits of modern switchable privacy technology.

This series is particularly suitable for luxury environments, executive spaces, premium hospitality projects, and applications where maximum transparency and uncompromising performance are essential.

Key Benefits

- ✓

Maximum Optical Clarity
- ✓

UV Protection >99%
- ✓

Ultra-Low Haze (<3%)
- ✓

Improved Safety in Case of Glass Breakage
- ✓

Low Power Consumption
- ✓

Instant Privacy Control
- ✓

Smart Home Integration Ready
- ✓

Suitable for Premium Architectural Applications

Typical Applications

- Executive Offices:

Boardrooms, executive offices, and high-end corporate environments.
- Luxury Residential:

Premium villas, luxury apartments, and exclusive residential developments.
- Hospitality:

Five-star hotels, luxury resorts, and premium guest environments.
- Healthcare & Research:

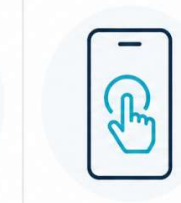
Research facilities, medical environments, and confidential consultation areas.
- High-Security Locations:

Meeting rooms, confidential workspaces, and sensitive project areas.

Technical Specifications

PARAMETER	SPECIFICATION
FILM TYPE:	Self-Adhesive PDLC Smart Film
LIGHT TRANSMISSION (ON):	91-92%
HAZE (ON):	<3%
OPERATING VOLTAGE:	60V AC
POWER CONSUMPTION:	≤5 W/m²
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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