



PDLC SMART FILM – COLORED | Design Series

Switchable Privacy with Architectural Color

Colored PDLC Smart Film combines instant privacy control with a selection of distinctive color options, providing architects and designers with greater creative freedom for functional and decorative glass applications.

Product Overview

The **Colored PDLC Smart Film** combines switchable privacy technology with architectural color, providing a distinctive alternative to conventional white PDLC Smart Film.

When **power is OFF**, the film provides an opaque colored privacy state. When **power is applied**, the film becomes transparent while retaining its characteristic color tint, allowing visibility through the glass while maintaining the selected visual appearance.

Available in a range of colors, the film enables privacy glazing to become an integrated part of the interior or architectural design concept rather than serving purely as a functional privacy solution.

The Colored series is particularly suited to projects where privacy control, visual identity and decorative design are equally important.

Key Benefits

- ✓

Multiple Color Options
- ✓

Instant Privacy Control
- ✓

Decorative Architectural Finish
- ✓

UV Protection ≥99%
- ✓

Low Power Consumption
- ✓

Wide Viewing Angle ≥160°
- ✓

Suitable for Existing Glass
- ✓

Smart Control Integration Ready

Typical Applications

- Corporate Offices:

Colored privacy glazing for modern offices and glass partitions.
- Residential:

Decorative privacy glazing for luxury interiors and feature partitions.
- Hospitality:

Decorative privacy solutions for hotels, restaurants and premium interiors.
- Retail & Showrooms:

Distinctive glazing for displays, branded environments and customer areas.
- Entertainment & Leisure:

Colored privacy features for lounges, clubs and recreational spaces.

Technical Specifications

PARAMETER	SPECIFICATION
FILM TYPE:	Self-Adhesive Colored PDLC Smart Film
AVAILABLE COLORS	Grey, Black, Blue, Green, Orange, Red
FILM THICKNESS	Grey: 0.47 mm / Other Standard Colors: 0.54 mm
LIGHT TRANSMISSION (ON):	Up to 84%
HAZE (ON):	4.53%
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:	Grey: 1800 mm / Other Standard Colors: 1500 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.

Important:

Color appearance and optical performance may vary depending on the selected film color, lighting conditions, glass type and installation environment. Standard dimensions may also vary between individual colors. Additional custom colors may be available upon request and are subject to production feasibility. Final color selection should be confirmed using a product sample where available.

Ready to discuss your project?

Contact our team for a free consultation.

Contact



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