



Self-Adhesive PDLC Smart Film, 60W Controller, 110V Input, IP20

- Switches between transparent and frosted states via 60W controller
- Controller accepts 110V input, compatible with wall switch, remote or app
- UV blocking rated at $\geq 99\%$ and IR blocking at $\geq 60\%$
- Self-adhesive PDLC material in white/grey finish for retrofit glass application
- Rated IP20 for non-waterproof interior installations
- 1-year warranty with rated lifetime of 50,000 hours

OVERVIEW

PRIV-FILM is a self-adhesive PDLC (Polymer Dispersed Liquid Crystal) smart film designed for retrofit application to interior glass surfaces. When power is applied, the film transitions from frosted to transparent; when power is removed, it returns to a frosted, privacy state. Typical applications include conference room partitions, office glazing, healthcare environments, and any interior installation where on-demand visual privacy is required.

The film operates through a 60W, 110V controller and is compatible with standard wall switch, remote, or app-based control. UV blocking is rated at $\geq 99\%$ and IR blocking at $\geq 60\%$, supporting solar heat and glare management in addition to privacy control. The film carries an IP20 rating and is intended for non-waterproof interior use, with a 1-year warranty and a rated LED lifetime of 50,000 hours. It is available in variable widths and custom opacity levels to accommodate project-specific requirements.

SPECIFICATIONS

OPTICAL

LED Lifetime 50,000 h

MECHANICAL

Product Dimensions 1200mm width

Finish white grey

Material PLDC

ORDERING

Warranty 1 y

ELECTRICAL

Operating Voltage 110 V

Wattage 60 W

ENVIRONMENTAL

IP Rating IP20

Environmental Rating Non-Waterproof

APPLICATIONS

Conference room glass partitions

Office glazing privacy control

Healthcare facility interior glass

Retail display windows

Interior doors requiring on-demand privacy

slug	value	source	confidence
led_lifetime_h	50,000 h	db	high
operating_voltage	110 V	db	high
wattage	60 W	db	high
product_dimensions	1200mm width	db	high
finish	white grey	db	high
material	PLDC	db	high
ip_rating	IP20	db	high
environmental_rating	Non-Waterproof	db	high
warranty_years	1 y	db	high

Specifications subject to change without notice.

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