

ILLUMI1 FILM

Features & Specifications

ILLUMI1 Film is operated by a simple electrical switch to control the opacity of the switchable film, turning it from clear to translucent. It can easily be integrated into home automation systems, giving you even more control. In its opaque state (unpowered, frosted state), the film acts as an electronic blind providing privacy and security for any glass, window, or partition.

It also acts as a high-quality projection screen. Rear projection gives you the highest quality image, whilst front projection effects can be enhanced with an additional reflective coating.

ILLUMI1 Film also provides thermal, solar, and sound insulation benefits, helping to keep rooms cool, comfortable and quiet. It regulates temperature and helps protect your skin and furniture from damage. Additionally, proven to reduce the impact of extreme outside temperatures on your interior temperature, thus saving you on energy costs.

A high temperature switchable film is also available for skylights and other exterior facing applications.

The ILLUMI1 Film is very economical and environmentally friendly, using less than 6 Watts per square meter when it is on (transparent) and 0 Watts when it is off (opaque). To put things in perspective, one LED lightbulb uses more energy than ten square meters of smart film or glass.

All day transparency with patented controllers, and low voltage transformers supplied by a third party.

Self-Adhesive PDLC Smart film is hypoallergenic, unlike dusty traditional blinds. Easy to install with a peel away backing providing a permanent application.

Please note that the glass will only switch from clear to frosted, not from clear to colored, and the color will always be visible.

Specifications

- Fast switching time of 0.1 seconds
- Responding Time : (OFF-ON) < 10ms
- Responding Time : (ON-OFF) < 45ms
- Lifetime over 1.5 million+ on/off cycles
- Lifespan : (ON) – 600,000hrs
- Film Thickness: 0.38mm
- Max Size: 58 inch x 126 inch (1.5m x 3.2m)
- Weight: ~900 g/m²
- Adhesive Bonding Strength: 50 g/mm
- Operating Temperature: -5F to 140 F
- Storage Temperature: Normal
- 3-Year Warranty

Applications

- For Residential and Commercial applications such as offices, schools, hospitals, apartments, hotels, and public buildings.
- Used for indoor applications. Not recommended for outdoor use.
- It can be used on a variety of glass surfaces including windows, shower doors, partitions, and more.
- It can also be applied to existing windows and glass surfaces.
- ILLUMI1 Film is fully customizable according to customers' specifications.