



BenQ
Materials Corp

Switchable PDLC Smart Film

CLARITY



Switchable PDLC Smart Film

BenQ Switchable PDLC Smart Film switches between opaque and transparent states when powered on and off, delivering instant privacy with a highly cost-effective, electronically controlled solution.

It also offers heat insulation, UV protection, and low power consumption, making it ideal for homes, offices, clinics, building façades, car windows, and high-tech industrial facilities.

Scan QR to see Smart
Film in action



Warranty:
2 years

Specifications

Thickness	0.37mm
Colour	White
Operation Modes	Off: Opaque On: Transparent
VLT (Total Transmittance)	~88% (ON) / ~74% (OFF)
Haze	~4% (ON) / ~97% (OFF)
Viewing Angle	160°
Operating Temperature	-10~60°C
Switching Time	Off to On: <10 milliseconds On to Off: < 200 milliseconds
Operating Voltage	48~60V (AC)
Power Consumption	5~10W / m2
Max. Width	1.5m

On-site consultation is recommended. The information provided in this sheet is not contractually binding. Jestac Pte Ltd reserves the right to modify the composition of its films at any time.

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Operation & Maintenance Guide



How to use the standard remote control?

1. 「ON」: The system is now turned ON. Electricity is supplied to the PDLC films, and the films are now transparent.
2. 「OFF」: The system is now turned OFF. No electricity is supplied to the PDLC films, and the films are now frosted.

*We recommend turning the system OFF once every 2-3 days to maximize performance.

3. 「▲」 「▼」: When the system is turned ON, then click “▲” or “▼” to adjust the frost level. There are 12 steps to adjust.



Troubleshooting

When the standard remote control does not work, please refer to the following steps to troubleshoot:

1. When pressing 「ON」 button on the standard remote control:
 - No light: Batteries are dead. Please replace with new batteries. (2 x CR2032 batteries)
 - Fast flashing: Batteries are low. Please replace with new batteries. (2 x CR2032 batteries)
 - Flash once: Normal operations



Maintenance

To preserve the clarity, performance, and pristine finish of your switchable smart film, we recommend the following care practices:

- Clean the film surface gently using 95% alcohol and a clean, soft cloth.
- Avoid leaving any residue around the silicone sealing area.
- Avoid the use of acidic or alkaline cleaning agents, as these may compromise the film's protective layers.
- Do not use abrasive tools or hard objects when cleaning, to prevent surface damage or scratches.
- Please power off* the system at least once every 2-3 days. This can help to extend the overall lifespan of the product.

*You do not need to shut down the entire system from the power sockets; you just need to turn the system OFF to Opaque state.

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