




YORA
SOLUTIONS

SMART GLASS CATALOGUE



+971 56 168 4336
+971 50 233 8486

 www.Yora-Solutions.com

 101, Building A2, DDP,
Dubai Silicon Oasis, Dubai,
United Arab Emirates

 Info@yora-solutions.com



YORA SMART GLASS

• **About:**

Yora Smart PDLC film represents a liquid crystal functional film that operates on Polymer Dispersed Liquid Crystal (PDLC) technology. This involves a coating that blends liquid crystal and polymer onto an ITO conductive film. The film's transformative ability, shifting from an opaque state to transparency upon electrical connection and vice versa, is seamlessly controlled through a switch mechanism.

Whether you seek a private sanctuary within your living space or wish to open up the boundaries between the indoors and outdoors, Yora smart glass empowers you with a simple yet powerful tool. Its versatility extends beyond mere utility, becoming a statement of modern sophistication and a paradigm shift in the way we perceive and interact with architectural elements.

Smart film offers versatile operation and connectivity through various control options, including remote control, switches, automation systems, and motion sensors.

Its applicability spans across diverse sectors, making it suitable for use in hospitality, corporate environments, healthcare facilities, residential spaces, retail establishments, and transportation.



POWER OFF

The liquid crystal molecules are randomly aligned making light scatter and the glass opaque.

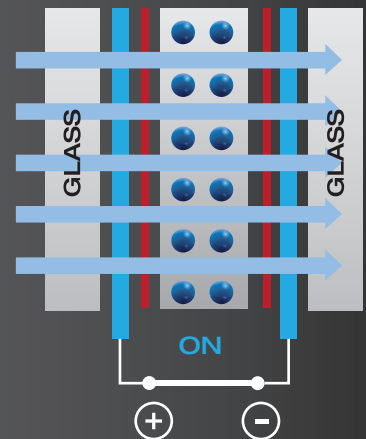
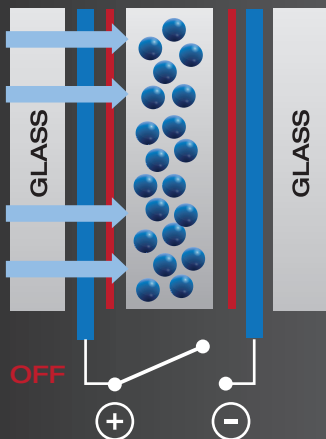
POWER ON

The liquid crystal molecules align and light can pass through

 **CONDUCTIVE COATING**

 **SUSPENSION LIQUID/FILM**

 **SUSPENDED PARTICLE DEVICES**

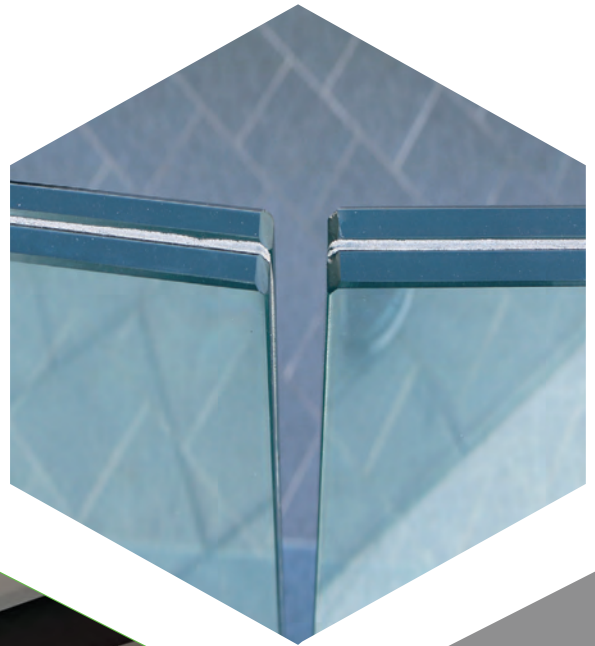


• Products

1-Yora Smart Glass:

- Yora smart glass is a laminated glass panel with a polymer dispersed liquid crystal interlayer film (PDLC). It offers privacy at the flick of a switch, by changing its state from opaque to transparent and vice versa instantly, through a small electrical current.

- Thickness of the laminated glass can be 4+4mm, 6+6mm, 8+8mm and 10+10mm.





Specifications:

- The glass employed in the lamination process of Yora Smart Glass is of the low iron variety, ensuring optimal clarity and purity. Moreover, for enhanced safety measures, it can be laminated with fire-rated glass, adding an extra layer of protection and meeting stringent safety standards.
- In environments characterized by high temperatures and humidity, Yora Smart Glass offers an extra layer of defense by being double glazed with various other types of glass panels. This additional feature not only reinforces the glass but also augments its resilience, making it well-suited for applications in hot and humid areas.
- For those seeking even greater transparency, Yora Smart Glass introduces an exclusive variant known as Ultra Clear Yora Smart Glass. This specialized grade goes above and beyond, providing an extra 8% transparency compared to the standard offering. This heightened level of clarity not only enhances the aesthetic appeal but also allows for an even clearer view, making it an ideal choice for spaces where transparency is of paramount importance.

Yora Smart Glass The Original specifications

Item	Specification
Light Transmission	83%
Haze	5.2%
IR Blocking	>60%
Operate Volts	60 – 65VAC
Power Consumption	8 W/m ²
Switch speed	< 10ms
Working Temperature	(-20° to 60°) C
Storage Temperature	(-10° to 80°) C
Thickness	420 – 445 µm
Warranty	5 years

Yora Smart Glass Ultra clear specifications

Item	Specification
Light Transmission	91%
Haze	3.2%
IR Blocking	>60%
Operate Volts	60 – 65VAC
Power Consumption	8 W/m ²
Switch speed	< 10ms
Working Temperature	(-20° to 100°) C
Storage Temperature	(-10° to 80°) C
Thickness	115 – 118 µm
Warranty	5 years



2-Yora self-adhesive smart film:

Yora self-adhesive smart film is an innovative PDLC film equipped with adhesive on one side, complemented by a durable hard coating.

This unique design facilitates direct installation onto pre-existing glass surfaces without causing any harm to the existing profiles or glass. The ease of application not only streamlines the installation process but also ensures a seamless integration with the current architectural setup.

This smart film from Yora offers a dynamic transformation from opaque to transparent and vice versa with a simple click on a switch. The responsive nature of the film, coupled with its adhesive convenience, makes it a versatile solution for on-the-fly privacy control. This feature is not only practical but also contributes to the adaptability of spaces, allowing users to tailor their environment according to their needs at any given moment.

For individuals desiring enhanced transparency, Yora Self-adhesive smart film presents a distinctive option called Ultra Clear Yora Smart Glass. This particular grade surpasses the standard offering by delivering an additional 8% transparency. This heightened degree of clarity not only elevates the visual allure but also facilitates a clearer view, rendering it a prime selection for environments where transparency holds significant value.

Yora Self Adhesive smart film The Original specifications

Item	Specification
Light Transmission	83%
Haze	5.2%
IR Blocking	>60%
Operate Volts	60 – 65VAC
Power Consumption	8 W/m ²
Switch speed	< 10ms
Working Temperature	(-20° to 60°) C
Storage Temperature	(-10° to 80°) C
Thickness	420 – 445 µm
Warranty	2 years

Yora Self Adhesive smart film Ultra-clear specifications

Item	Specification
Light Transmission	91%
Haze	3.2%
IR Blocking	>60%
Operate Volts	60 – 65VAC
Power Consumption	8 W/m ²
Switch speed	< 10ms
Working Temperature	(-20° to 100°) C
Storage Temperature	(-10° to 80°) C
Thickness	115 – 118 µm
Warranty	2 years



3-Yora Smart Blinds:

Yora Smart Blinds empower users to selectively activate distinct sections or strips of their switchable smart glass. Crafted from a roll-format PDLC film, it features subtle predetermined lines that are imperceptible to the naked eye.

Ideal for a range of settings such as offices, government institutions, leisure and entertainment clubs, as well as high-end private residences, Yora Smart Blinds elevate spaces to new levels of sophistication. Departing from the conventional design of standard smart glass, it introduces diverse scene modes, thereby enhancing spatial flexibility and imbuing a futuristic essence.

Yora smart Blinds can be as a smart glass or Self-Adhesive film The original or ultra-clear.



Glass, Mirror, Partitions & Doors systems Solutions:

At Yora Solutions FZCO, we take pride in offering a wide range of high-quality glass & mirror products to meet the diverse needs of our customers. Whether you're looking for functional glass solutions or elegant mirror designs, we have you covered.

Our Glass Products:

1. Clear Glass: Versatile and timeless, our clear glass is perfect for windows, doors, tabletops, and more. It offers exceptional transparency and durability.
2. Frosted Glass: Frosted glass adds privacy and elegance to your space. It's an excellent choice for shower enclosures, office partitions, and decorative applications.
3. Tinted Glass: Enhance aesthetics and control light with our selection of tinted glass. Choose from various shades to create a unique atmosphere.
4. Laminated Glass: For enhanced safety and security, our laminated glass is the ideal choice. It holds together when shattered, reducing the risk of injury.



Glass Aluminum Partition Systems

Create versatile and functional spaces with our aluminum partition systems. These systems are designed to enhance your office or commercial environment, offering flexibility and aesthetic appeal. Whether you need to create private offices, meeting rooms, or open-plan workspaces, our partition systems are the perfect solution. Features include:

Door Systems

Our door systems are designed to complement your building's aesthetics and functionality. Features includes, Entrance doors, Sliding Glass doors, swing doors, revolving doors and frameless design doors.





Reaching Across Continents & Beyond:

From
United Arab Emirates
to Saudi Arabia, Mauritius to
Jordan, our projects have made
a lasting impact across multiple nations,
Transcending borders. These countries include
but are not limited to:

- **United Arab Emirates**
- **Qatar**
- **Saudi Arabia**
- **Kuwait**
- **Oman**

- **Iraq**
- **Jordan**
- **Maldives**
- **Mauritius**
- **Kenya**



Whether you

Seek a private

Sanctuary within your

Living space or wish to open up the

Boundaries between the indoors and outdoors

Yora smart glass empowers you with a simple yet powerful tool.