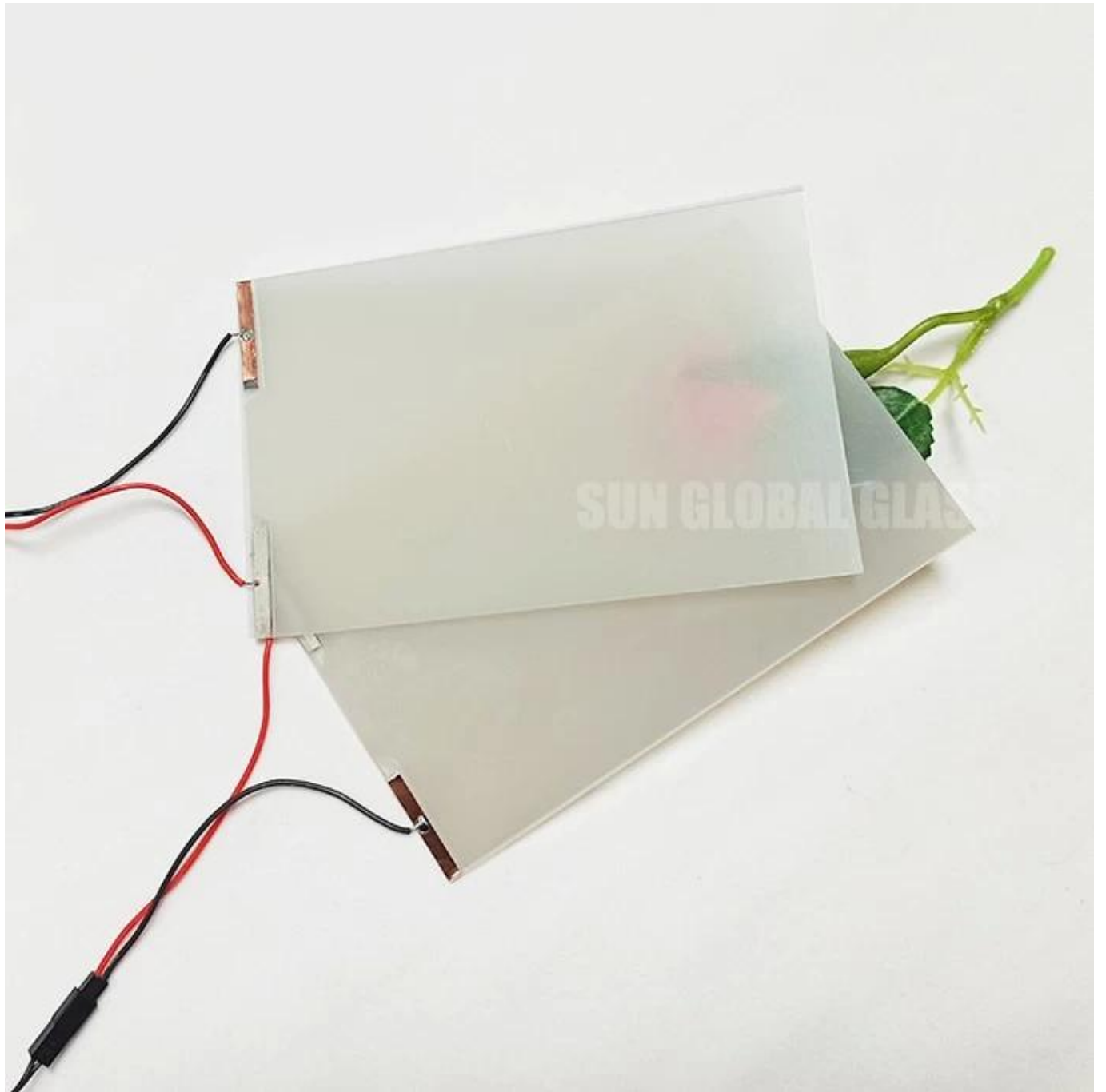
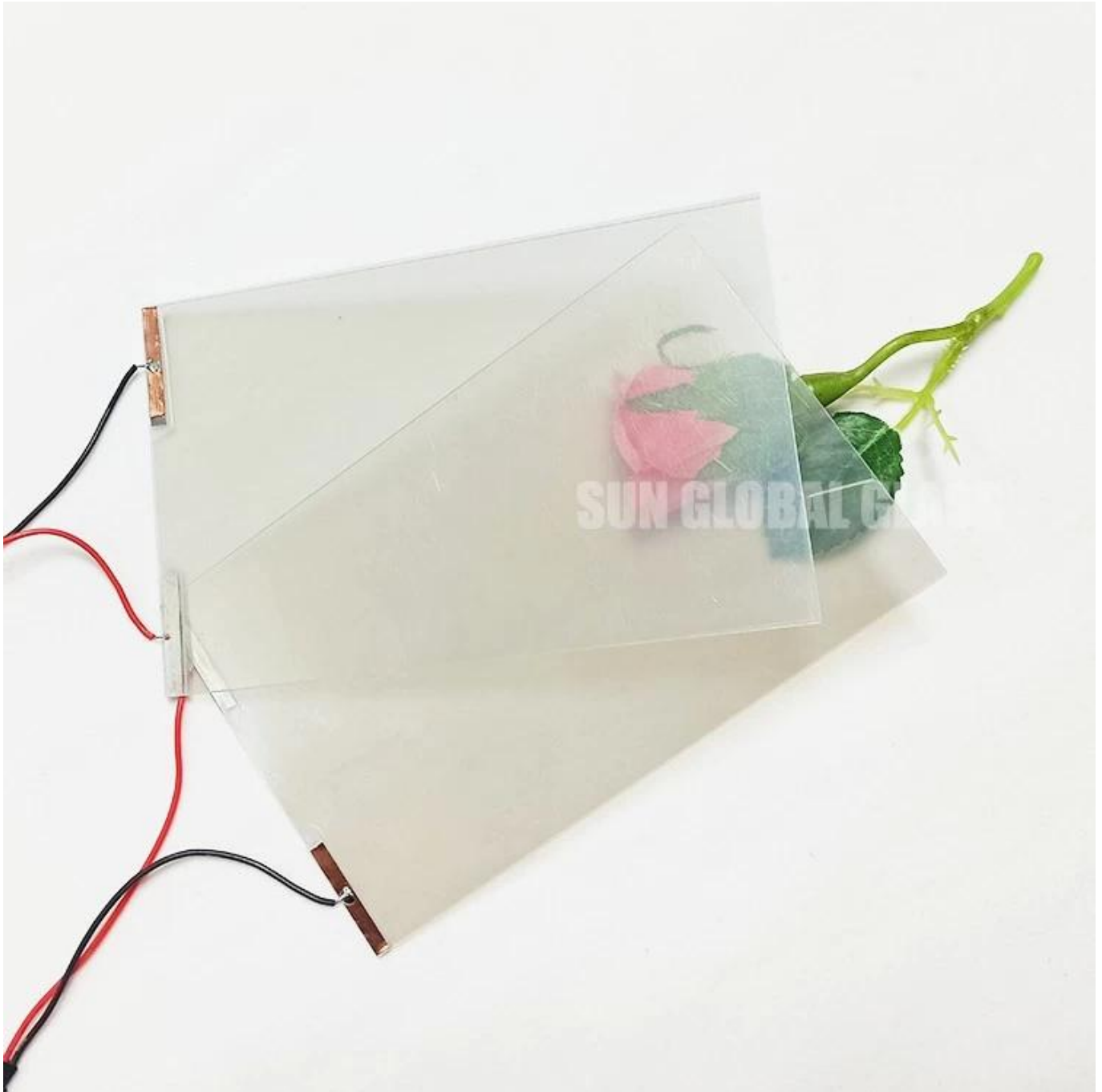


**PDLC smart film** also called switchable privacy Film, LC Film, switchable smart film, privacy glass film, magic glass film, electronic film, smart tint film, etc...

It is capable of adjusting light transmission between transparent and opaque using AC power. Applied for making [laminated smart glass](#) by lamination on glass interlayer, or stick on architecture existing glass surface, such as window, door, bathroom, partition wall etc. to get a instant privacy on demand. It gets many functions, such as light adjustment, UV and infrared blocking, advertising and security.

Glass with PDLC film will become vaporous due to the disordered arrangement of liquid crystal molecules after turning off the power. On the contrary, when the power is on, neatly organized molecules will make smart film present transparency.





## Types of PDLC Smart Film

According to different installation ways, PDLC film can be divided into self-adhesive pdlc film and non-adhesive pdlc film. Self-adhesive pdlc film can be easily stick on any existing glass panel surface with glue coating on one side of film. Non-adhesive pdlc film generally used for processing switchable laminated glass, laminated in middle of two glass panel with an EVA interlayer.

According to different colors and pattern, PDLC film can be divided into frosted, printed colors, like blue, green, yellow, gray, brown, pink, red etc. and printed any customize pattern, depend on customer's demand.

**Colored PDLC Film**



**Digital Printed PDLC Film**



**Laminated Glass with PDLC Interlayer**



## **Specification of PDLC Smart Film**

Max Length: 50m

Thickness: 0.5mm

Visible Light Transmittance: >85%(ON), >50%(OFF)

Parallel Light Transmittance: >80%(ON), <2%(OFF)

Haze: 7%(ON), 95%(OFF)

Visual Angle: >120%(ON)

Ultraviolet Rejected:  $\geq 98\%$ (ON&OFF)

Response Time: OFF-ON <10ms, ON-OFF <200ms

Power Consumption: <5W/M<sup>2</sup>(ON)

Working Temperature: 10°C —60°C

Storage Temperature: -10°C —60°C

Switch Frequency: >80 million times

## **Advantages of Digital Printed PDLC Smart Film**

1. Flexible and can easily be trimmed on site.
2. It is hygienic and easy to keep clean. It is dust-free and therefore anti-allergic.
3. It is not subject to interior trends and timeless.
4. It is easy to remove without damaging the glass.
5. Sustainable, good for the environment.
6. Reduces materials-consumption used to make curtains, shutters, blinds, projection screens, and dry erase boards.



**Office Partition**

protect privacy and maximizing the space of modern office.



**Shower Room**

enjoy a privacy moments in a limited square footage.



**Hospital**

Prevent the spread of disease and noise



**Residential**

instead of curtains or blinds, make homes more energy efficient

## **PDLC Privacy Film Installation and Maintenance**

Never fold, bend or curve Smart Film. Always keep the film flat and straight as shown in picture

Do not remove the protective liners until you are ready to install the film

Wear Nitrile gloves when handling the film

When handling films take particular care with the edges to avoid delamination.

