Smart glass is based on the sodium-calcium or silicon-boron sheet glass whenever an electrically conductive surface that at the same time offers a high optical transparency is required. This is achieved by sputter-coating a thin conductive layer of indium-tin-oxide on high quality glass substrates. Our conductive transparent glass is often used for display technology and micro structuring applications.

Specification:

Name: Switchable Glass, Privacy Glass, Smart Glass ,PDLC Glass, Magic Glass.

Technology: PDLC

Glass thickness: 4mm+4mm to 10mm+10mm etc.

Thickness of smart film: 0.5mm

Size: customized size, not beyond 1.8*3.3m.

Advantages of Smart Glass:

-Controls lighting and energy usage

-Unprecedented comfort and control

-Hypoallergenic, unlike dusty traditional window treatments

-No mechanical parts to fail

-Reduces ongoing maintenance costs vs. motorized blinds

-Protects by blocking 99% of UV rays

-Compatible with existing window treatments

-Enhances safety by preventing breakage

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How does smart glass works?

The principle could be explained in a simple way. Water valve controls amount of water flow. Each tiny liquid crystals droplets, measured at few microns, act as “light valve” controlling intensity of light passing

through. A piece of PLDC film contains numerous tiny liquid crystal droplets. When all “light valves” work together at the same time, large amount of light intensity is under controlled.

Products Picture:

Application:

1. Window glass

2. Partition glass

3. Door glass

4. Roof glass