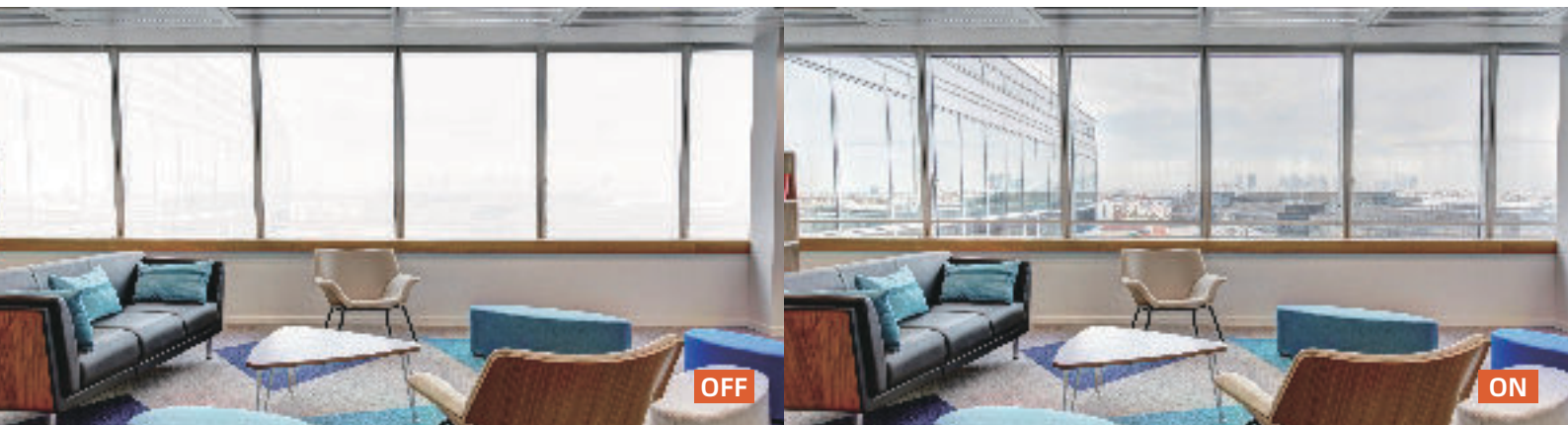




## FILMBASE 085

Smart Film

**84%-86%**  
Highest transmittance

**4-5%**  
Haze

### Key Features



Dynamic Privacy



Environmental protection



Space partition



Touch screen and projection



Security



Heat-resistant and anti-scratch

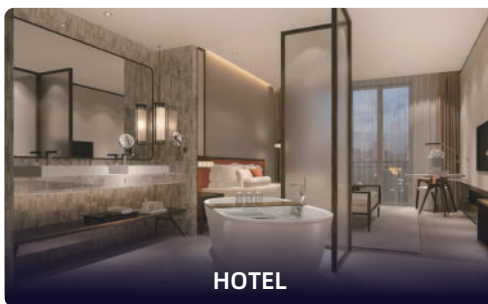
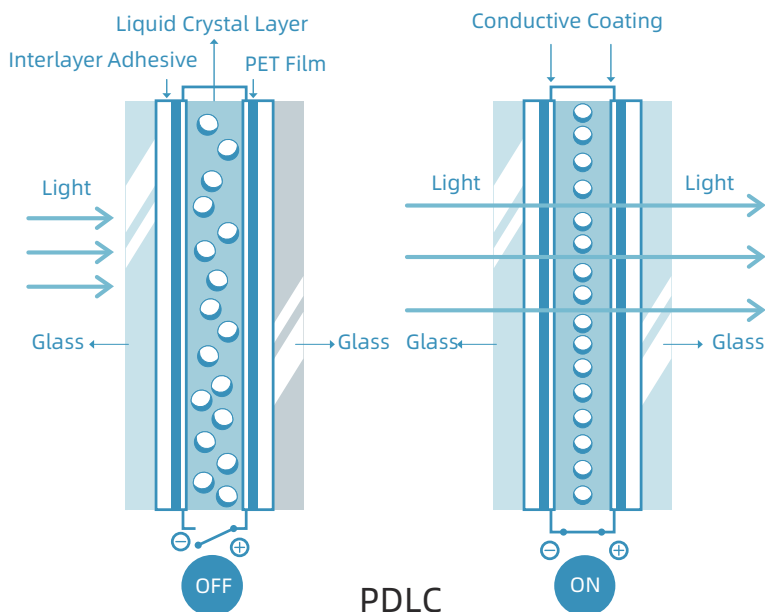


Anti-noise



Various control methods

### Technical Principles



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## Size

| Items               |                 |                |                                   |
|---------------------|-----------------|----------------|-----------------------------------|
| Adhesive PDLC film  | Total Thickness |                | 0.47mm                            |
|                     | Cut to Sheet    | Width          | 100-1800(mm)                      |
|                     |                 | Length         | 100-50000(mm)                     |
|                     | Roll            | Width          | 1000,1200,1500,1800(mm)           |
|                     |                 | Length         | 30meters /50meters                |
| Laminated PDLC film | Total Thickness |                | 0.38mm                            |
|                     | Cut to Sheet    | Width          | 100-2100(mm)                      |
|                     |                 | Length         | 100-50000(mm)                     |
|                     | Roll            | Width          | 1000,1200,1500,1800,2000,2100(mm) |
|                     |                 | Length         | 30meters /50meters                |
|                     | Roll tube       | Inner Diameter | 6 inches                          |

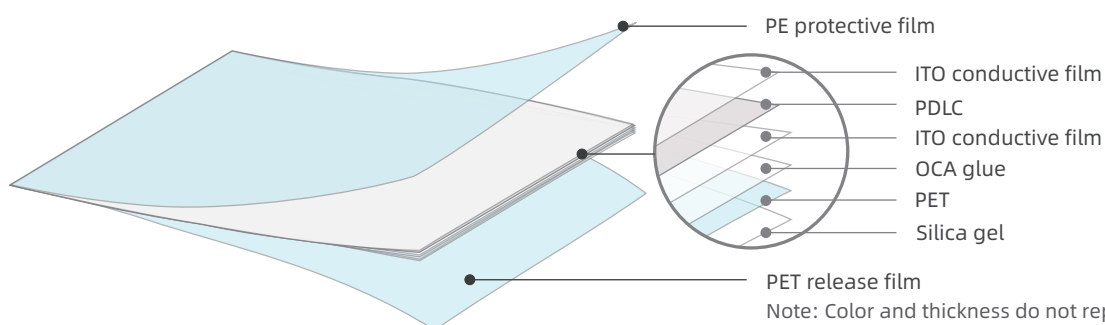
## Optical Parameter

| Items                  | ON/OFF |                     | Test Methods/Standards                            |
|------------------------|--------|---------------------|---------------------------------------------------|
| Operating voltage      | ON     | 60V                 | Multimeter/Voltage Regulator,WGW                  |
| Power consumption      | ON     | ≤ 5W/m <sup>2</sup> | Multi-parameter electric measuring instrument     |
| Viewing angle          | ON     | ≥ 160°              | Visual Inspection                                 |
| Uv blocking rate       | OFF    | ≥ 99%               | Optical transmittance tester                      |
| Infrared blocking rate | OFF    | ≥ 60%               |                                                   |
| Response time          | OFF→ON | ≤ 30 ms             | Liquid crystal parameter integrated tester        |
|                        | ON→OFF | ≤ 200 ms            |                                                   |
| Operating temperature  | --     | -30℃ ~ 50℃          | constant temperature and humidity testing machine |
| Life-span              | --     | 100000 Hours        | GB18910.5-2008                                    |
| Switching times        | --     | ≥ 2 million times   | Self-made on/off tester                           |

## Product Transparency / Haze

| Items               | Full light tester |      |                          |         | Parallel light tester |                |
|---------------------|-------------------|------|--------------------------|---------|-----------------------|----------------|
|                     | ON/OFF            | Haze | Full light transmittance | b value | 45° light             | Parallel light |
| Adhesive PDLC film  | OFF               | 94.5 | 78.0                     | 6.62    | /                     | /              |
|                     | ON                | 4.53 | 84.0                     | 4.56    | 58.0                  | 82.0           |
| Laminated PDLC film | OFF               | 94.5 | 78.0                     | 5.64    | /                     | /              |
|                     | ON                | 4.53 | 84.0                     | 3.55    | 58.0                  | 81.0           |

## Structural



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.

