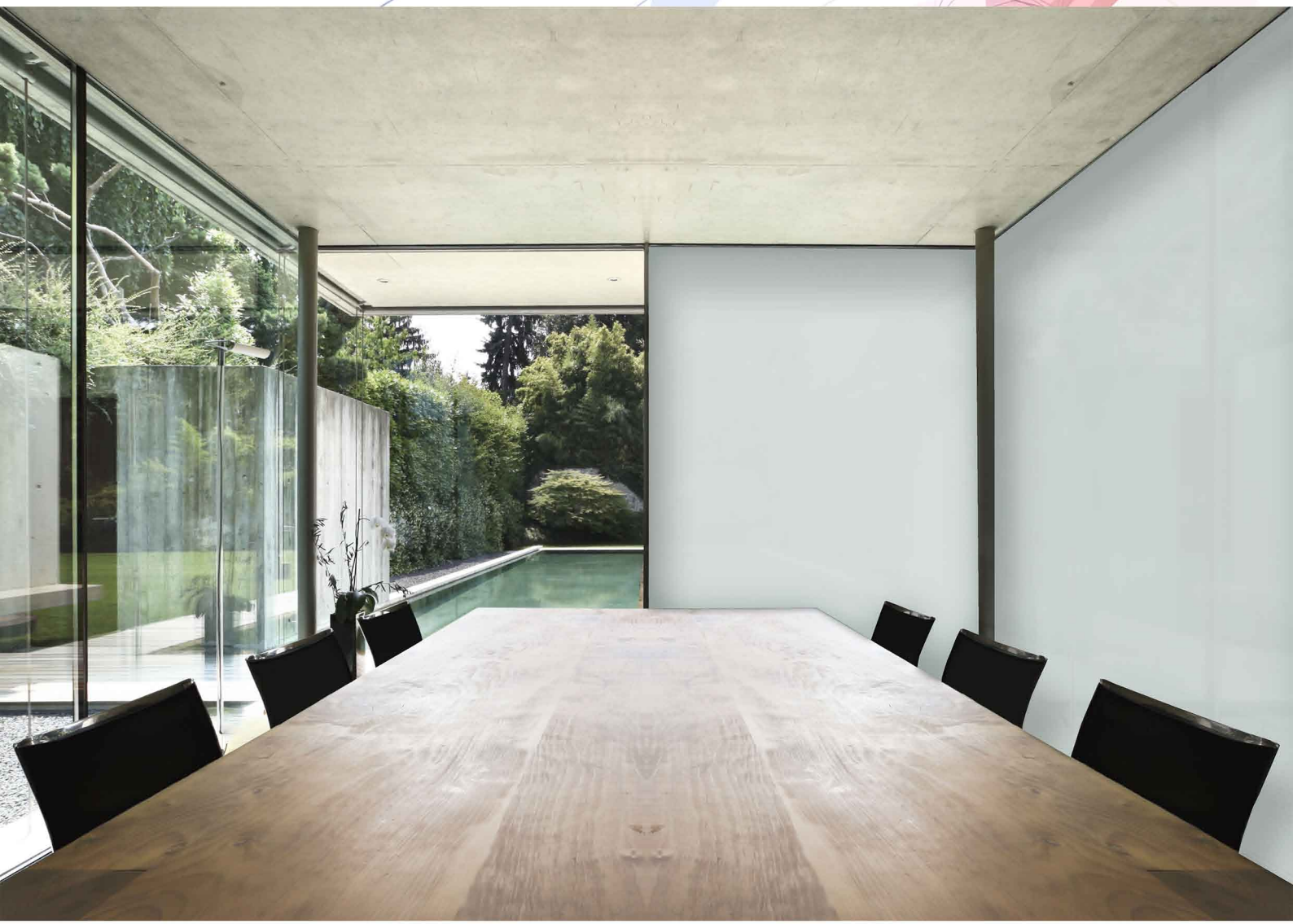
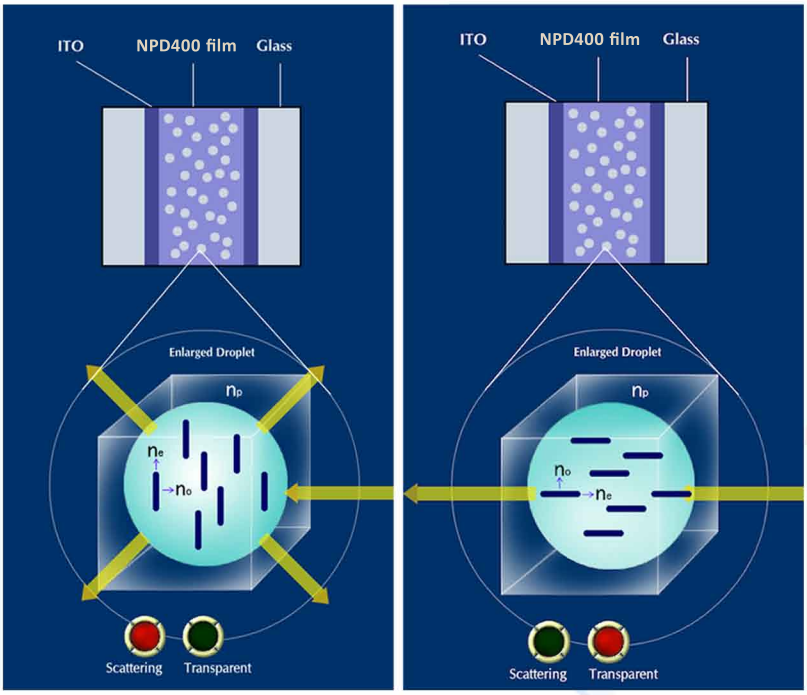
PRIVY-X

TECHNICAL SPECIFICATIONS





HOW IT WORKS

Liquid Crystal particles are dispersed within a formulated Polymer matrix, and when supplied with a flow of electricity, these particles will align parallel to each other to allow light to pass through. Once the flow of electricity stops, the crystals return to their original position (randomly oriented towards each other), and will block the flow of light. This Liquid Crystal Polymer coated film is then laminated between 2 glass panels to become **PRIVY-X** glass.

P R I V Y - X

For Exterior Application

Mode	Power ON: Clear Power OFF: Opaque
Colour	Power ON: Clear Power OFF: Milky White
Thickness of Film	0.375 mm
Size	Max: 1300mm (W) x 2850 mm (H)
Operation Temperature	-30°C to 80°C
Driving Voltage	20 ± 5 V
Energy Consumption	1.5 Watt/m^2
Transparency (ON)	> 70%
Viewing Angle	160° at clear state
Response Time	Off - ON: 0.005 sec On - OFF: 0.2 sec
Operational Lifetime	> 80,000 hours

Note:

1. Although the film has passed a high voltage test, for extending the operational lifetime of the film, the driving voltage should not exceed 110V. Calculation for suitable driving voltage is:
Driving Voltage = SV + SRC, SV - Standard Voltage, SRC - Sheet Resistance Compensation. SRC = 5V x Distance between electrodes in foot.
2. The above data are typical values. Due to continual research and development on the products, the data may change without notice.

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