Technical Data Sheet - Metro Switchable Glass

PRODUCT NAME: Metro Switchable glass – The Original

Description:
A thin film of liquid crystals dispersed in a polymer matrix (PDLCs) laminated between two plastic substrates coated on the inner face with a thin layer of conductive material. By applying a small electrical current, its state can change from opaque to transparent and vice versa. It's sold in rolls, sheets of standard size and custom size sheets.

Uses / applications:
Primarily used as a privacy element, allowing users to have privacy at the flick of a switch in the following sectors: commercial, residential, healthcare, hospitality, retail & showroom, security, marine, aviation and rail.

TECHNICAL CHARACTERISTICS		
General features		
Thickness:		370 - 395 µm
Maximum width:		1800 mm
Maximum length (PDLC Roll):		50 m
Dimensional tolerance in custom size sheets:		±1 mm
Dimensional tolerance in length (rolls):		±10 cm
Dimensional tolerance in standard sheets:		±10 mm
Optical and electrical characteristics		
Off mode	Direct transmittance (Tmin) Total Transmittance (direct + diffuse transmittance) b* (according to CIELAB color system)	< 0.3% < 70% < 5
On Mode	Direct transmittance (Tmax) Total Transmittance (direct + diffuse transmittance) Haze (H)	> 78% ≥ 80% ≤ 4.5%
Switching time		< 0.1 second
Power consumption		≤ 7 W/m2
Mechanical properties		
Adhesion		> 80 g/cm
Working range		
Operating voltage		60 - 65 Volts
Operating frequency		50 - 60 Hertz
Temperature:		
Storage		-30 to 85°C
Operation		-10 to 85°C

The above figures are recommended for guide purposes only. Dream Glass Group reserves the right to amend information without prior notice.

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