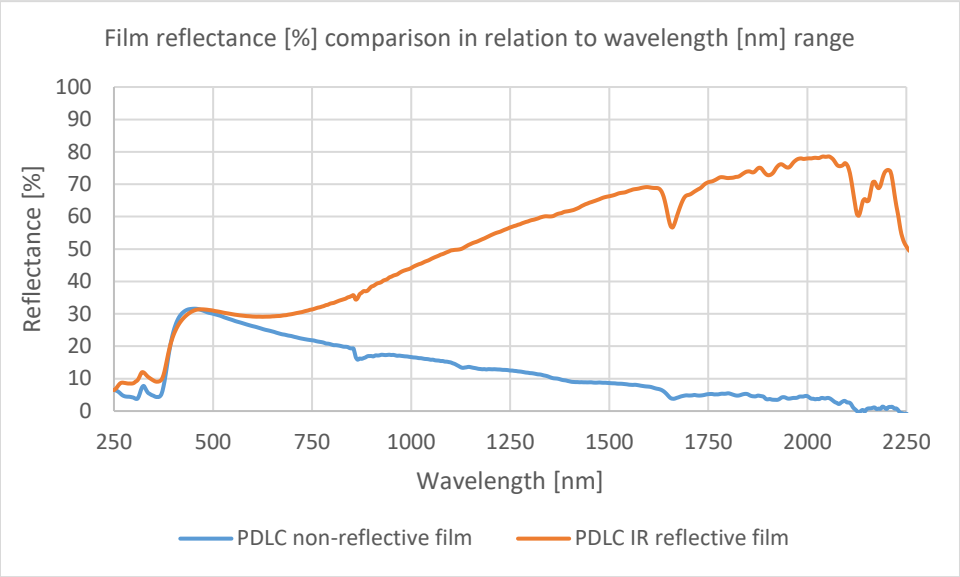
Optical, Technical and Electrical Specification

Film Optical Performance			
Attribute		Translucent	Clear [1]
Parallel Light Transmittance		3.2%	73%
VLT (Total Transmittance)		60%	75%
Haze (ON) [2]	25°C	3.3%	
	80°C	3.9%	
Film Technical Properties			
Switching Time	10ms		
Film Operating Temperature [3]	-20°C to +90°C		
Film Power Consumption	1-3W/m^2		
Film Thickness	330/ 380μ		
Max. Roll Width [4]	1500mm		
Film Solar Performance [5]			
Attributes		Off	On
VIS (Visible range of light) [5]	Transmission	65.2%	78.0%
	Reflection Outside	31.3%	13%
	Reflection Inside	28.4%	13.8%
Solar Energy [5]	Direct Transmission	39.5%	46.9%
	Reflection Outside	78%	76%
	Absorption	0.9%	1.2%
G- Value [5]	Heat Transmittance	0.5	0.58
U- Value [5]	W/K*m2	5.52	5.52
Film UV block	99%		
ΔT(°C) [6]	Up to 15°C		
Energy Saving	For every degree reduced, Gauzy saves approx. 7% on air conditioning costs.		



Above 1000 nm, IR PDLC films reflectance range increases and achieves 78% ,at 2000 nm, while the regular PDLC films present 5%.

Electrical Performance	
Operative Controllers	Flex / Multiplex PDLC controllers & Customized controllers
Operating Modes	ON/OFF, Dimmer
Operating Voltage	48-70VAC
Operating Frequency	25,32,50Hz

[1] Optical performance measured using a square wave signals provided by Gauzy PDLC Controllers.

[2] Haze tested on 'haze-gard i', by BYK, and according to lamination with PVB processing. Haze performance may vary if laminated with EVA.

[3] Temperature rate of lamination cycle can be handled at 135°C like the common lamination process temperature. By building different stacks with the glass processor it is possible to extend the temperature range from -30 degrees to +100 degrees.

Extreme temperature test method:

- For stable and accurate results, film must be glass laminated to maintain required temperature.
- The sample was placed in a pre-heated oven set to 80°C or 90°C.
- The sample was measured for various electro-optical properties such as haze and switching abilities i.e. Max/Min VLT%

* If optical measurements are carried out at different temperatures on the sample, we recommend measuring from low to high temperatures. Since the cooling times of the PDLC layer and the

surrounding glass are different, measurements from high to low temperatures distort the results of the optical measurements.

[4] Films can be ordered in rolls or cut-to-fit sheets, at any length.

[5] Solar results based on the following stack: 4mm + 4mm clear float glass with 0.76mm PVB

[6] Gauzy Solar LCG® reflects up to 78% of Thermal IR, which reduces temperatures inside a space by up to 15°C. Solar IR = 2000nm. This is the point where thermal IR is generally benchmarked.