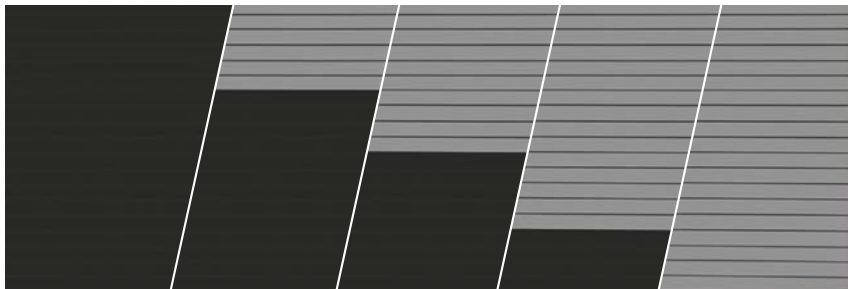


LC-FILM FOR SWITCHABLE GLASS


SECTION ACTIVATION POSSIBLE





MINI-BLINDS-EFFECT



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Testing Parameters		State	Result	Remark
Optical	VLT	ON	Approx. 75% ± 3%	
	(parallel light)	OFF	<3	
	Haze	ON	<7%	
		OFF	>90%	
	Viewing Angle	ON	Approx. 150°	
	UV Blocking	ON	>70%	Film has to be laminated between glass to get this data.
		OFF	>99%	
	Infrared Blocking	ON	<20%	Film has to be laminated between glass to get this data.
		OFF	>90%	
	SHGC	ON	0.78	Film has to be laminated between glass to get this data.
OFF		0.06		
Electrical	Power supply V	ON	65VAC	
	Response Time	ON à OFF	100ms	
		OFF à ON	10ms	
Power Consumption	ON	Approx. 5W/m ²		
Size	Thickness	N/A	Approx. 0.4mm	
Environmental	Operating Temperature	ON/OFF	-10° to 65° C	Film has to be laminated between glass to get this data.
	Storage Temperature	ON/OFF	-20° to 70° C	Film has to be laminated between glass to get this data.
	Life (indoors)	ON/OFF	More than 10 years	Film has to be laminated between glass to get this data.

By applying an extra-low voltage through a voltage converter the film becomes transparent. The film in the glass is opaque (almost like frosted glass) without voltage, it offers privacy but remains translucent. The secret of the film are the liquid crystals!

Both sides of the LC film are covered with a conducting layer and are connected to each other with a conductor rail. As soon as an electrical voltage passes between the two layers, the particles in between rearrange. The film turns into a transparent and sheer glass section. This switch happens within milliseconds and it can be done repeatedly since it will not wear out.

