



INTELLIGENT GLASS

# Switchable Smart Film

Item	Measuring Article		Test Condition	Unit	Value
Thickness	Film Thickness		Micrometer	mm	Standard Film 0.5mm +/- 10%
					Self Adhesive Film 0.7mm +/- 10%
Optical Character	On	Transmittance	Spectro Photometer		78
		Haze			5
	Off	Transmittance			7
		Haze			78
UV Filtering	Self Adhesive Film		Within 1 Year		99%
Dimensional Stability	Heat Shrinkage	MD	100°C x 30min	%	0.5
		TD			0.5

## Technical Specifications

ITO film - 350 microns  
 LC polymer coating - 100 microns  
 Protective coatings - 75 microns  
 Self adhesive layer - 45 microns  
 Power - 110v  
 Frequency - 50-60 Hz  
 Electrical current - 0.1 amperes per square metre  
 Power consumption - 12 watts per square metre  
 Switching - less than 1 second  
 Operation mode - On (transparent) / Off (opaque)  
 Light transmittance - On (75%) / Off (67%)

## Test Procedures

Tested over 3 million switches  
 High temperature - >70°C (14 days)  
 High temperature / humidity - >50°C / 95% RH (14 days)  
 Cold temperature - minus 20°C (14 days)