

switchable smart film

Technical Specification



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 - 7 watts per square metre
 Switching - less than 1 second
 Operation mode - On (transparent) / Off (opaque)
 Light transmittance - On (75%) / Off (67%)
 Haze Coefficient - On (7%) / Off (87%)

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)

The latest generation of switchable film provides a simple and cost effective alternative to other switchable smart glass technologies. It is manufactured with a self adhesive cling layer on one side which makes it easy to apply to both new and existing glass (no specialist installation equipment required). A simple ON – OFF mode switches the film from being clear (transparent) to frosted (opaque).

