



INTELLIGENT GLASS

Switchable 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 - 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)

Pro Display TM Ltd
Unit 5
Shortwood Business Park
Hoyland
Barnsley
S74 9LH

T: +44 (0)870 766 8438
F: +44 (0)870 766 8437
E: sales@prodisplay.co.uk
W: www.prodisplay.com

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