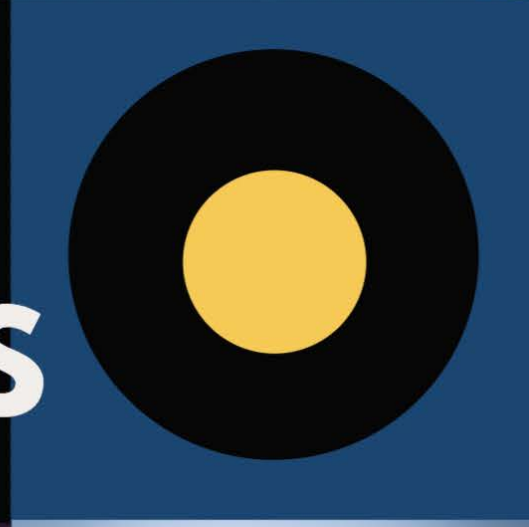
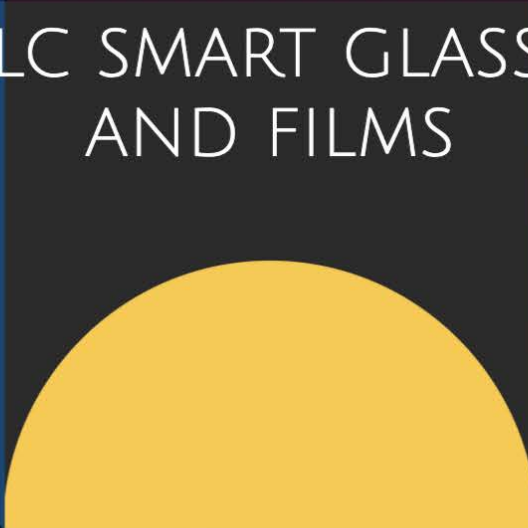


Malisco

M-GLASS



PDLC SMART GLASSES
AND FILMS





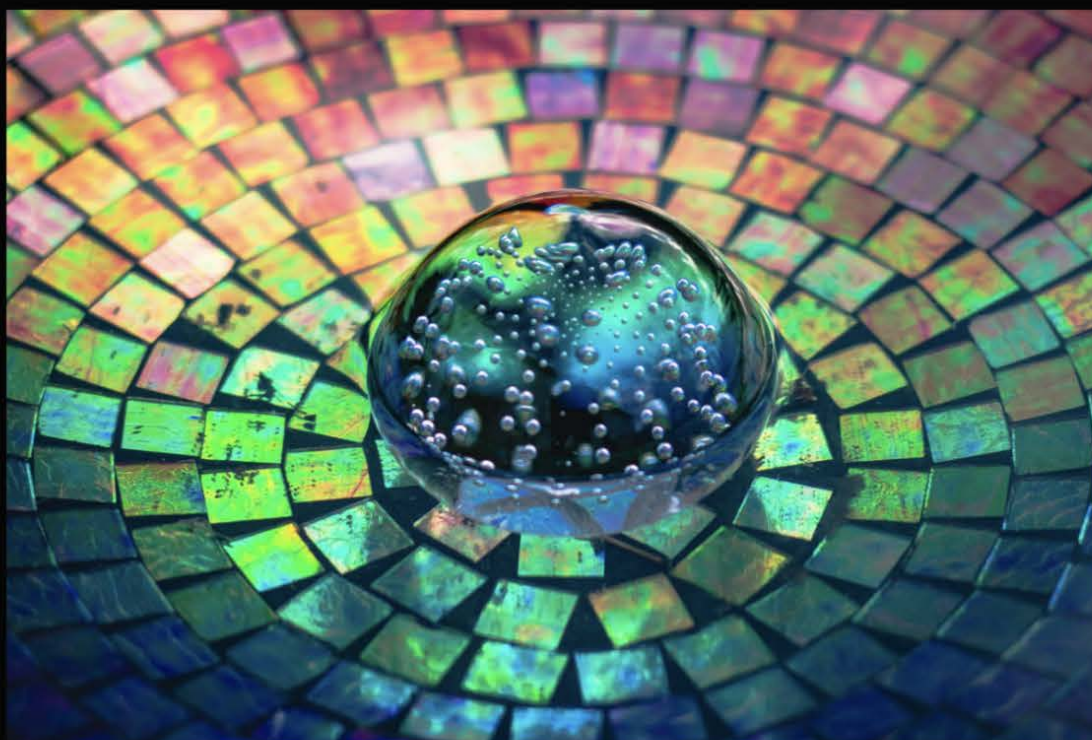
Malisco Electrical Trading

About Us

Established in 1993, we have supplied to more than 3000 projects in construction, commercial and industrial, military sectors across the world. Malisco is a growing organization; since we started our operations more than twenty years ago we have achieved a phenomenal growth of more than 400 times.



PDLC smart glass technologies change transparency and opacity with electrical supply to control various types of light. The unique particles or molecules inside our films scatter when off, blocking light and creating opacity. When on, particles or molecules align, allowing light to pass through and transparency



Polymer Dispersed Liquid Crystal

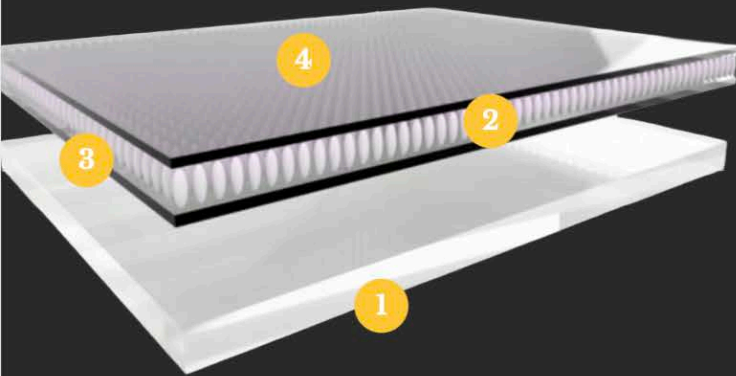
PDLC - Smart Film





PDLC Smart Films

M-Glass Technology



- 1 Glass Panel
- 2 PDLC Film
- 3 Dry Adhesive
- 4 Scratch Resistant Coating

Malisco's Adhesive smart films are applied to existing glass, allowing any glass to instantly be converted into smart glass. Handled exclusively by professional window film installers, these films are designed to be easily retrofitted into existing spaces.

Adhesive smart films support on-demand transparency or privacy, projection, and IR solar control. By retrofitting a project with M-Glass PDLC, the function of glass is extended from the moment installation is complete, for a spatial transformation.

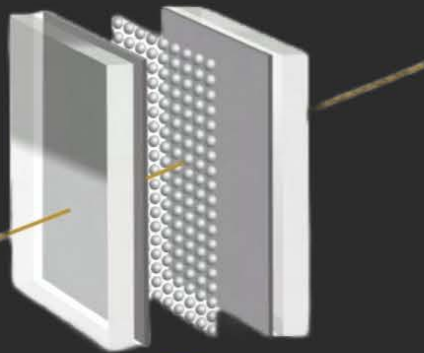
Adhesive smart films have a scratch resistant coating for durability and usability. Films can be installed onto almost any existing window, partition, or door. Films are precisely installed to ensure all wires and busbars are hidden with frames or other trimming solutions, creating a uniform and finished appearance.



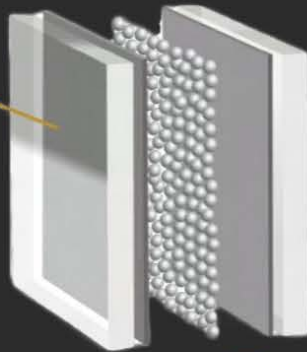


Malisco Electrical Trading

M-Glass Features

**ON**

particles or molecules align, allowing light to pass through and creating transparency.

**OFF**

particles or molecules scatter, blocking light and creating opacity.

EASY MAINTENANCE

Unlike ordinary drapes or curtains, M-Glass collects just minute fraction of dust. Just a quick wipe and you are good to go.

SUSTAINABLE

M-Glass is proven to reduce the temperature inside drastically, reducing on the cooling energy requirements and saving on the monthly bills

BLOCK RADIATION

Exposure to UV and infrared radiation can damage furniture and the flooring and also your health. M-Glass blocks more than 99% of UV rays and more than 80% of infrared radiation



Malisco Electrical Trading

APPLICATIONS



Residential

Mainly used for windows and large glass panels. Removes need of curtains and lowers energy consumption.



Retail

Used to attract or lure in customers and also in certain cases to provide elite customers privacy while shopping.



Corporate

Used for personal rooms, windows to the exterior and meeting rooms. Increases flow of natural light.



Education

Used in classrooms and breakout rooms for privacy.



Healthcare

Used mainly on doors and large panels to provide instant privacy.



Advertising

For display exhibits and stalls in large events. Convert stalls into instant projection screens for adverts.



Hospitality

Frequently used in highend washrooms and to avoid one layer of curtains to the exterior



Law Enforcement

Used to get instant privacy in sensitive areas in police stations and courts.

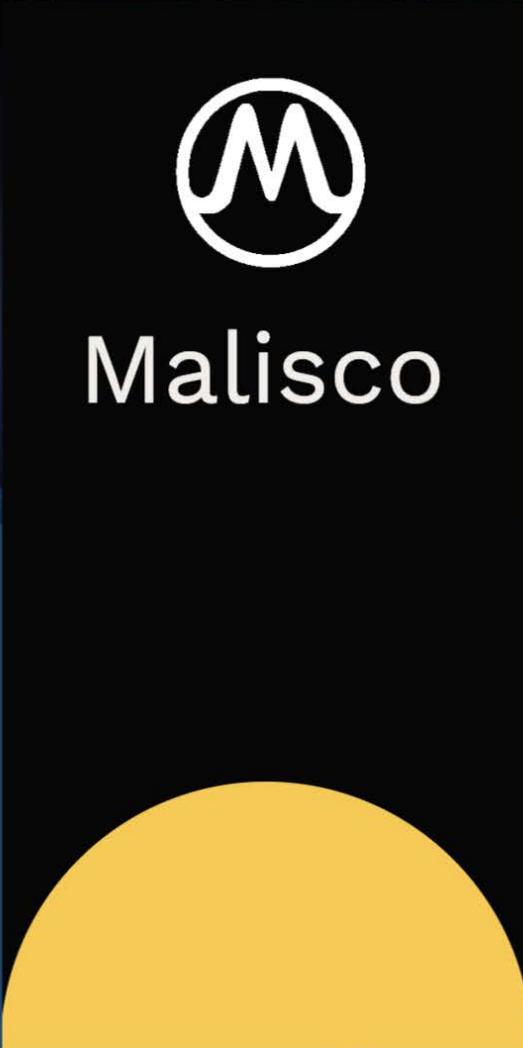
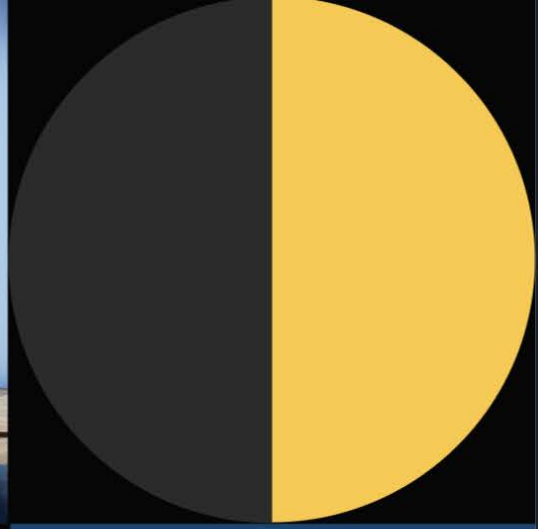
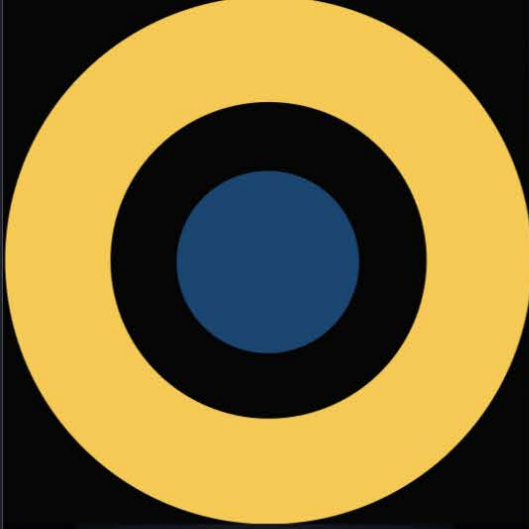


TRANSMITTANCE (ON)	82% / 88% / 90%
TRANSMITTANCE (OFF)	>53%
HAZE (ON)	<4%
HAZE (OFF)	>95%
VIEW ANGLE	>150DEG
OPERATING VOLTAGE	AC48V-65V/50HZ
RESPONSE TIME	<200MS
POWER DISSIPATION	6-8 W/M2
THICKNESS	0.4MM
OPERATING TEMPERATURE	-30 TO 50C
STORAGE TEMPERATURE	-40 TO 70C

Malisco Electrical Trading

TECHNICAL SPECIFICATIONS





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