ROYAL TINT®

est. 2016

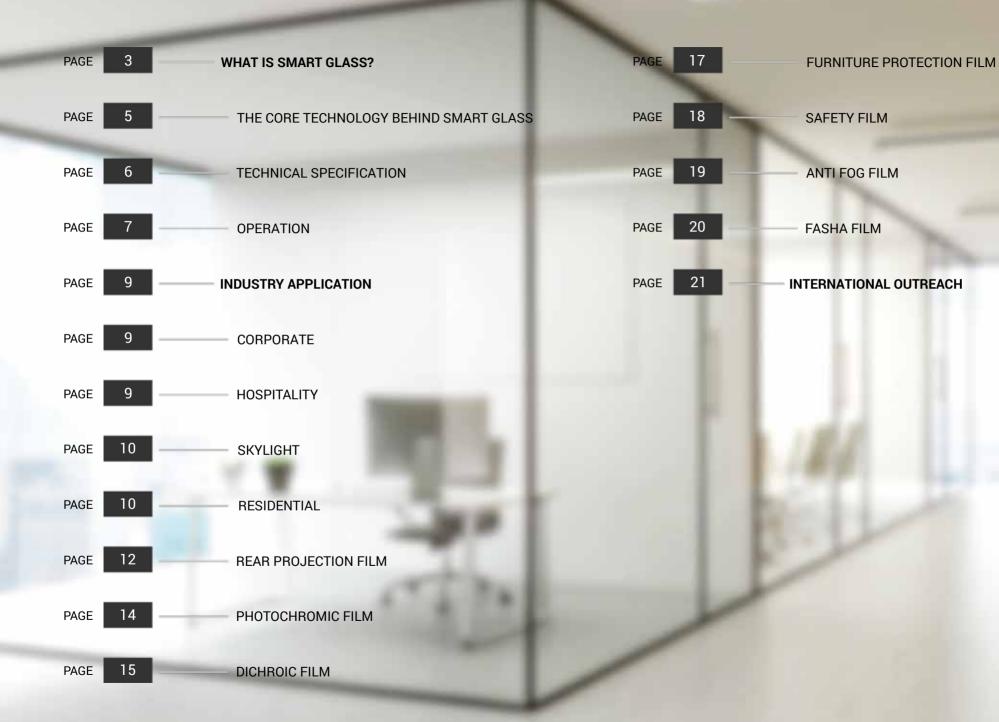
PRODUCT CATALOGUE

Consciously Transforming



Royal Tint was founded on 2016 in India, on the principle of supplying high-quality smart glass.

PDLC film is a distinctive product in itself. With hard work and persistence, we have successfully delivered client satisfaction and established an empire throughout India. We provide world-class Services, Support & Quality. Having experienced significant and continuous growth since its foundation, Royal Tint has established its own Manufacturing unit of smart glass in 2020.



What is Smart Glass?

A TECHNOLOGY USED FOR SMART GLASS & SMART FILM

ROYAL TINT Switchable film, is capable of adjusting light transmission between transparent and opaque. Switchable film can be directly installed on existing Glasses with self-adhesive. It combines many functions, such as light adjustment, UV and infrared blocking. Advantages of smart film is it eliminates the need for blinds, shades or window treatments.

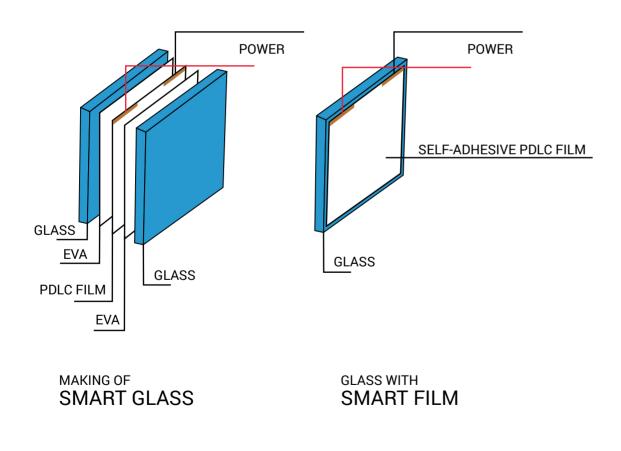
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As a crucial elements of modern design, glass separations provide access to a natural light and open views.



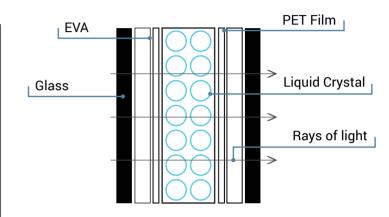
THE CORE TECHNOLOGY

Switch off the current and the glass turns opaque. Reactivate the current and the glass reverts to a clear, transparent view. This ingenious technology involves a film of dispersed liquid crystal in a polymer matrix pressed between two glass sheets. When a small current is applied to the liquid crystal, its molecules align allowing light to pass through. When the current is disconnected, the molecules immediately disarrange for instantaneous and total privacy.



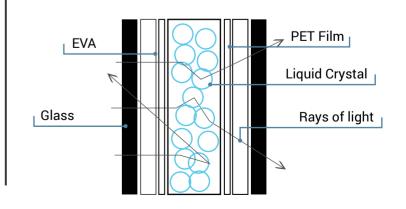
POWER ON

THE LIQUID CRYSTAL MOLECULES ALIGN AND LIGHT CAN PASS THROUGH



POWER OFF

THE LIQUID CRYSTAL MOLECULES ARE RANDOMLY ALIGNED MAKING LIGHT SCATTER AND THE GLASS OPAQUE.



TECHNICAL DATA

ELECTRICAL PERFORMANCE

OPTICAL PERFORMANCE

POWER SUPPLY TECHNICAL PARAMETER

Working Temperature Storage Temperature Working Temperature Current Power Consumption

> Visible Angle Switching Speed Switch Lifetime Lifetime Viewing Angle UV / infra Block

Output Voltage Output Power Output Current -20°C +70°C -30°C +70°C -20°C +70°C 0.08A/m2 5w/m²

>140 >10ms >200000 (ON/OFF) >80000 Hours >140: >98%

48 - 65V(AC50/60HZ) 4W- 1000W; & 5W-1000W 0.01A - 20A

SWITCHABLE SMART GLASS

Thickness	5+5, 6+6, 8+8 (mm)
Max Width	2.0 m
Max Length	3.66 m
Transmittance	82%

SWITCHABLE SMART FILM

Thickness	0.40 mm
Max Width	1.8 m (Adhesive), 2.0 m (Non-Adhesive)
Max Length	3.66 m
Transmittance	85.5%

OPERATION CONTROL

Royal Tint Smart Glass can be controlled in multiple ways, to reach different levels of privacy. Simply choose whichever method best suits you and start operating your switchable smart glass.



DOMOTICS

REMOTE CONTROL





DIMMER



SWITCH



MOTION SENSOR



TRANSPARENT OPAQUE

A francis

CORPORATE





HOSPITALITY





SKYLIGHT





RESIDENTIAL







REAR PROJECTION FILM

Rear Projection Film turns regular glass into a projection screen, where a projector needs to be installed in the back of the screen.

Each of our Projection Films has got distinctive characters and comes in various types.

It has a water-activated adhesive base Product & is Compatible with any projector.

Our unique optical film technology offers superior brightness, contrast, and black levels even in high ambient light or daylight for promotion Display and presentation.

TypeMattApplicationGlass/ AcrylicRaw materialPET - AdhesiveGlueAcrylic transparent glueThickness4 milRoll size1.52*30m



PHOTOCHROMIC FILM

Royal Tint brings you a unique product to control sunlight. This film has created to work for both daytime and night-time. The photochromic film is used for windows glass & vehicle glass.

The photochromic film is a unique film it contain pigments that allow sunlight to make your windows darker in the daytime and then back to being very light at night-time.

Photochromic film reacts to the sunlight intensity and becomes darker to reduce the solar heat gain and glare.

Photochromic non-electrified films provide automatic sunlight control all day long.

Blocks 99.9% of the Sun's UV Rays.

Blocks over 90%+ of the Sun's Infrared Heat transmitting through the glass which helps save on cooling costs, Reduces the sun's glare and provides more comfortable environmental view.

	V70+ V60+		S70+
Thickness	3 mil	3 mil	3 mil
	_	_	
VLT : Visible Light Transmission	75%-30%	69%-25%	75%-23%
IR : Infrared Rejection	86%-90%	93%-95%	86%-90%
VLR : Visible Light Reflection	11%	11%	11%
UVR : Ultraviolet Rejection	99%	99%	99%
TSER : Total Solar Energy Rejected	61%	67%	57%
SHGC	0.47	0.47	0.49
SR Hardness	>2H	>2H	>2H
Roll Size	1.52*30m	1.52*30m	1.52*30m



DICHROIC FILM

Dichroic Films shift through a rainbow of colors from a change in light or movement. It is produced by stacking layers of glass and micro-layers of metals or oxides which gives the glass shifting color depending on the angle of view.

The shimmering, color-shifting effect of the film is a magnificent addition to any space and is visible from both sides of the glass or product.

The film offers maximum flexibility of bend it, pattern it or apply it with different glass types of interlayer adhesive.

It can be applied on glass partition wall, interior-exterior glass to give the best artistic view.

Type Color Application Raw material Glue Thickness Roll Size Glossy Chameleon Blue / Red Glass / Acrylic PET - Adhesive Acrylic Transparent Glue 2 mil 1.5*30m



FURNITURE PROTECTION FILM

It is a material designed for bright, reflective and fully transparent without changing the original colour of the furniture.

This product prevents furniture surface from scratches and damages. UV-proof to prevent furniture fading old.

This film material is self-adhesive which is applied to remove the back protection layer.

We are able to provide you variety of Segment of this film which is relevant to microns difference.

> Type Color Application Raw material Glue Thickness Roll Size

Glossy / Matt Transparent Marble / Corien / Furniture PET - Adhesive Acrylic Transparent Glue 2 mil, 6 mil 1.52*30m

SAFETY FILM

Safety films are designed to perform under adverse conditions.

This product offers UV protection as well—blocking up to 98% of damaging ultra-violet rays.

Safety films are easy to install and prevent the glass from splintering on impact. Their quality material gives additional strength and reduces glare.

It protect from break-and-enter crimes to accidents and natural disasters, also helping to deter unwanted individuals from entering your home or business, protecting people.

Visible Light Transmission	96%	92%	88%	86%
Thickness	2mil	4mil	8mil	12mil

Color	Transparent
Ultraviolet Rejection	90%
Raw material	PET - Adhesive
Glue	Acrylic Transparent Glue
SR Hardness	>2H
Roll Size	1.52*30m



ANTI-FOG FILM

Anti-fog Film prevents the condition of water in the form of small droplets on a surface that resembles fog.

Due to super hydrophilic hard coating, water droplets can spread over quickly and no dew condensation.

They prevents mirror that produces fog, to prevent the formation of mist in the mirror above the fog.

Fogging most commonly occurs when there is a temperature differential between inside and outside of an enclosed atmosphere that time you can use this film on your glass surface or car mirror to view a clear picture.

Type Color Application Raw material Glue Roll size Glossy Transparent Bathroom mirror/building glass PET - Adhesive Acrylic transparent glue 1.52*30m

FASHA FILM

Fasha Film is a decorative film for glass surfaces. This film help to create stunning visual effects on interior glass surface, as well as add privacy and control light.

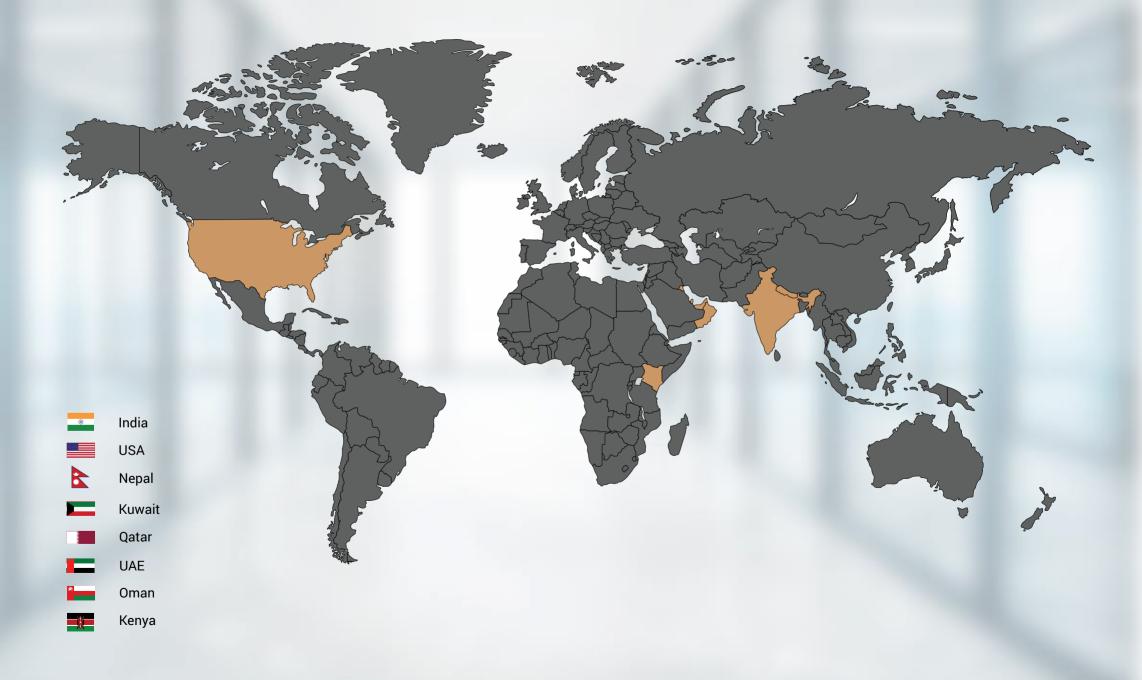
This product is a high-grade Film that helps to reduce UV Inhibitors block out 99% of ultraviolet light.

It creates a low gloss surface to reduce glare from natural/artificial lighting. Fasha provides the advantages of etched, cut, sandblasted, and textured glass at a fraction of the cost.

Type Color Application Raw material Glue Roll size Glossy White Glass / Acrylic PET - Adhesive Acrylic transparent glue 1.52*30m & 1.82*30m



INTERNATIONAL OUTREACH





TRUSTED BY INDUSTRY

Our Clients understand the value of having a talented technology they can trust to get the job done. We value simplicity and with so many big corporate and residential project, clients are satisfied and believe their trust in us. Our Team has technically sound and professional that simplify technology, love to solve problems and focus on continual improvement every day.





HEADQUARTERS

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