Glass Reimagined

www.dimglass.net

DimGlass
Your Privacy Matters

Contents

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About us

Our products offer easy installation, cost-effectiveness, and reduced energy consumption while maximizing light transmittance.

We are a local Saudi company specializing in innovative workspace intelligence solutions through our state-of-the-art switchable smart film technology.

Our high-tech invention allows users to effortlessly transition between privacy and transparency at the flick of a switch, providing a seamless experience for various environments. With our mobile applications, managing your workspace's privacy has never been easier.

As pioneers in switchable privacy film in Saudi Arabia, we offer tailored solutions designed for a wide range of applications, including offices, meeting rooms, hospitals, libraries, showrooms, residential spaces, and gyms.

Our products not only enhance privacy but also elevate the aesthetic appeal of any space.

We pride ourselves on delivering and installing our advanced privacy solutions throughout Saudi Arabia, ensuring that our clients receive exceptional service and support.

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Our Products

PDLC Adhesive Film

PDLC Non-Adhesive Film

Cloaking Film

Flexible Transparent LED Film Display

Decorative Glass Films

Transformers

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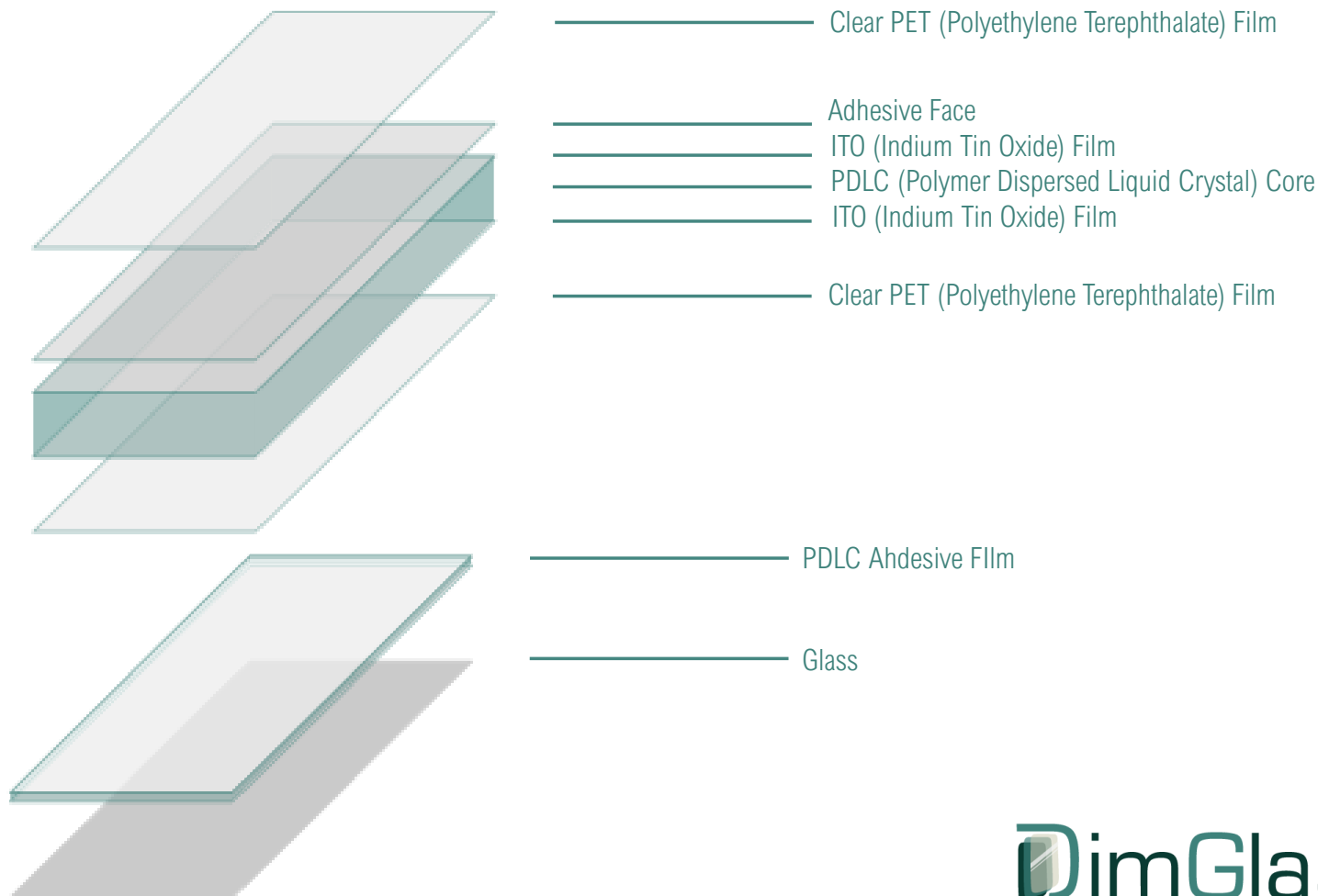Your Privacy Matters

PDLC Adhesive Film

What is PDLC Adhesive Film?

PDLC (Polymer Dispersed Liquid Crystal) adhesive film is a type of smart film that can be applied to existing glass surfaces and creates switchable privacy glass. This film uses liquid crystal technology to change its transparency, and it can transition from opaque to transparent when an electric current is applied.

Clear PET (Polyethylene Terephthalate) Film

Adhesive Face

ITO (Indium Tin Oxide) Film

PDLC (Polymer Dispersed Liquid Crystal) Core

ITO (Indium Tin Oxide) Film

Clear PET (Polyethylene Terephthalate) Film

PDLC Ahdesive FIlm

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PDLC Non-Adhesive Film

What is PDLC Non-Adhesive Film?

PDLC (Polymer Dispersed Liquid Crystal) non-adhesive film is a type of smart film designed to be laminated between two glass layers to create switchable privacy glass. This film uses liquid crystal technology to change its transparency, and it can transition from an opaque to a transparent state when an electric current is applied.

Glass

EVA

PDLC Non-Adhesive Film

EVA

Glass

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Smart Films Products Features

Privacy and Safety - Our switchable smart film offers control over transparency and opacity, allowing users to adjust the films state at any time. With a rapid response speed, you can ensure privacy and safety whenever needed.

Sound Insulation - Our laminated smart films, integrated between the layers of glass, effectively provide partial noise reduction. This feature enhances the overall acoustic comfort of your space.

High Intelligence - Our switchable smart film can be seamlessly integrated with home and building management systems, enabling unified intelligent control. This integration allows for enhanced automation and efficiency.

Stable Performance and Long Service Life - Our switchable smart film is designed for durability, capable of being used over 2 million times and maintaining functionality for more than 80,000 hours in the open state, with a lifespan of up to 15 years.

Energy Saving and Environmental Protection - Our technology blocks over 99% of UV rays and more than 98% of infrared radiation, contributing to energy efficiency and environmental sustainability.

Power Saving - When powered on, the film remains transparent, allowing for excellent light transmission even when powered off, achieving an impressive 99% power saving.

Safety - In the event of breakage due to impact, our smart films are designed to prevent debris from causing harm, ensuring safety for all users.

Diversified Control Methods - We offer a variety of control options tailored to customer needs, including manual switches, remote control, trigger control, voice control, timing control, and mobile application control.
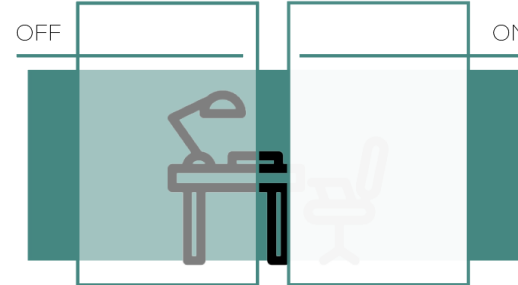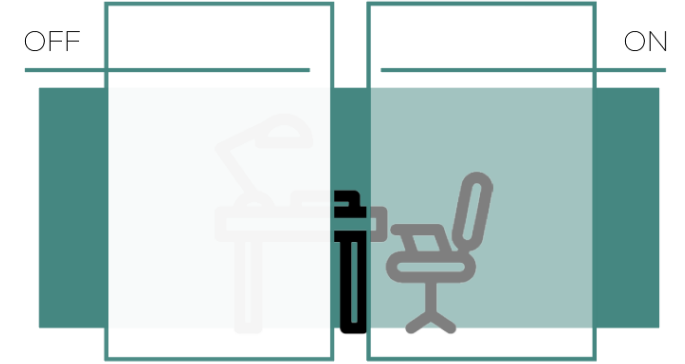
Projection Function - Our smart glass can double as a projection screen in power-off mode, delivering a clear and vibrant image for presentations and entertainment.

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95%-99%

Yüksek Işık Geçirimi

Artan Görsel Netlik

85%-90%

Düşük Işık Geçirimi

Azalan Görsel Netlik

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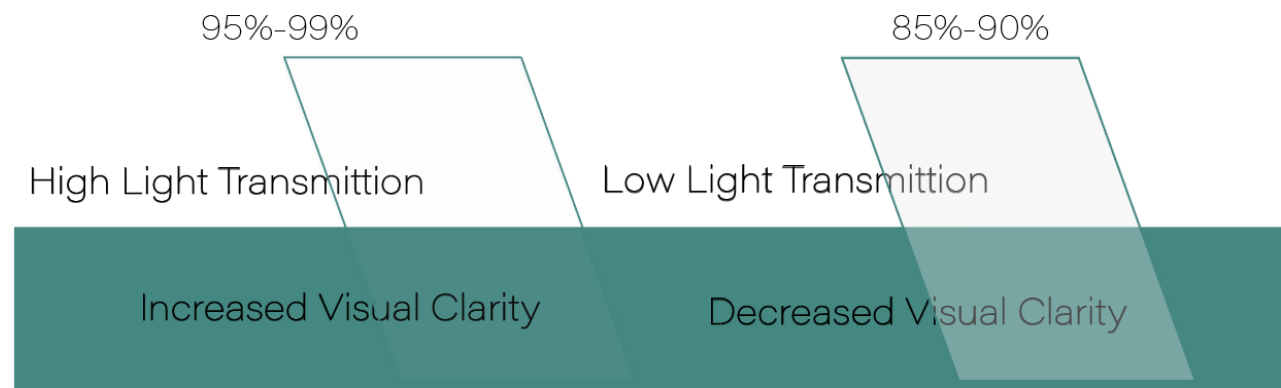Your Privacy Matters

OFF

ON

OFF

ON

PDLC (Polymer Dispersed Liquid Crystal) film can be customized in various ways to meet the specific needs and preferences of customers.

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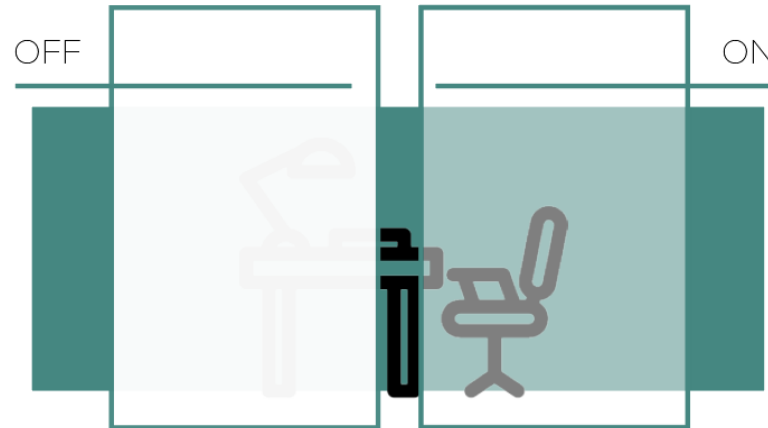
PDLC Adhesive and Non-Adhesive Film - Key Features

Feature A

95%-99%

85%-90%

High Light Transmittion

Low Light Transmittion

Increased Visual Clarity

Decreased Visual Clarity

Multiple Transparency Levels:

- The film is available in various transparency options, including high (85%), ultra (95%), and dark gray. This flexibility allows clients to choose the level of privacy and light diffusion that best suits their needs.
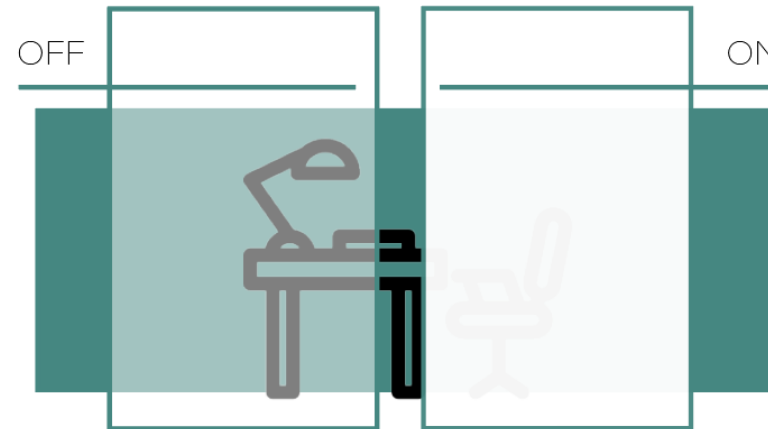
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Feature B

Feature C

Standard Dynamic Light Control:

- The ability to switch between opaque and transparent states gives users significant control over light and privacy. This feature is particularly beneficial in office settings, where meeting rooms can be made private at the touch of a button, facilitating a more adaptable work environment.

Reversed Film:

- Unlike traditional PDLC films that become opaque when electricity is turned off, the reversed film operates in the opposite manner. It remains transparent when powered off and becomes opaque when electricity is applied. This unique feature offers flexibility in privacy control, allowing users to choose when to obscure visibility.

OFF

ON

OFF

ON

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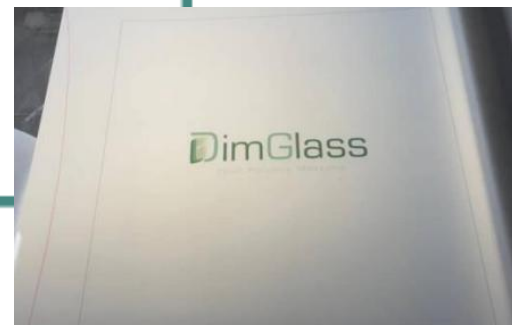
Feature D

Blinding Film:

- This variant allows for creative designs, such as displaying patterns or half-covered glass. It can also feature moving patterns across the glass, providing a dynamic visual effect that can enhance the aesthetic appeal of a space.
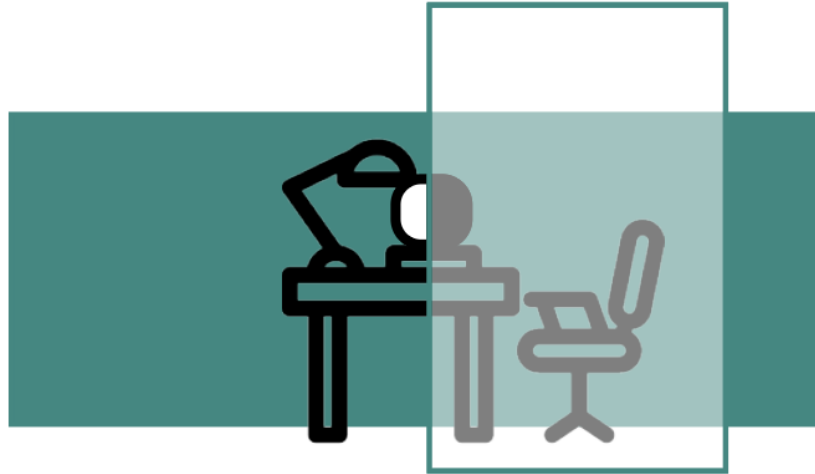
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Feature E

LOGO Film:

- This option incorporates branding elements directly into the film, making it ideal for commercial spaces. Businesses can display their logos or other branding graphics, enhance visibility and brand identity while maintain functionality.

Cloaking Optical Film

What is the Cloaking Optical Film?

- Cloaking optical film is a specialized type of film designed to obscure digital displays, such as computer screens, from outside view while maintaining the aesthetic appeal of the surrounding environment. This technology is particularly useful in office settings where privacy is essential, allowing users to collaborate freely without exposing sensitive information to passersby.

Cloaking Optical Film Special Key Features:

- **Privacy Protection:** Cloaking optical film effectively darkens screens to the point where they appear nearly black from an angle, preventing unauthorized viewing of displayed content. This feature is crucial for maintaining data confidentiality in open office spaces.

- **Advanced Technology:** Utilizing advanced materials and optical principles, cloaking films can manipulate light to achieve the desired level of obscurity, making them a cutting-edge solution for privacy concerns.

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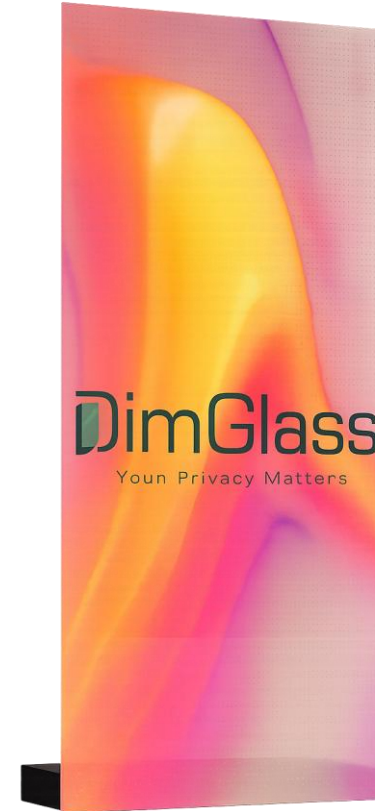
Flexible Transparent LED Film Display

LED Special Key Features:

- **High Transparency Ultra-high transparency:** The transmittance are more than 90%. Mini LED integrated light and driver. invisible grid circuit design and ultra-high transparent film material

- **Easy Installation :** Self-adhesive, No splicing structure. No steel structure required. Simply attach the thin screen to glass, no glue needed.

- **Ultra-Thin and Light :** Thin 2mm, Light 1.3kg

- **Flexible :** Suitable for any surface (Straight , Curved and Oval Surfaces)

- **UV resistant :** 1000 Hours UV Resistance Test

Flexible Transparent LED Film Display

Model	P4	P5	P6.25	P8	P10	P15	P20
Module Size(mm)	240*1000	320*1000	400*1000	400*1000	400*1000	390*990	400*1000
LED Light	REE:1313	REE:1313	REE:1313 / 2121	REE:1313 / 2121	REE:1313 / 2121	REE:2121	REE:2121
Brightness cd/㎡	2000	2500	2000 / 4000	2000 / 4000	2000 / 4000	2000 / 4000	2000 / 4000
Pixel Composition	R1G1B1	R1G1B1	R1G1B1	R1G1B1	R1G1B1	R1G1B1	R1G1B1
Pixel Pitch (mm)	4*4	5*5	6.25*6.25	8*8	10*10	15*15	20*20
Module Pixel	250*60=15000	200*64=12800	160*64=10240	125*50=6250	100*40=4000	66*26=1716	50*20=1000
Pixel/㎡	62500	40000	25600	15625	10000	4356	2500
Transparency	90%	91%	92%	92%	94%	94%	95%
Angle of View°	160	160	160	160	160	160	160
Input Voltage	AC100-240V50/60Hz	AC100-240V50/60Hz	AC100-240V50/60Hz	AC100-240V50/60Hz	AC100-240V50/60Hz	AC100-240V50/60Hz	AC100-240V50/60Hz
Peak Power	600w/㎡	600w/㎡	600w/㎡	600w/㎡	600w/㎡	600w/㎡	600w/㎡
Average Power	200w/㎡	200w/㎡	200w/㎡	200w/㎡	200w/㎡	200w/㎡	200w/㎡
Work Environment	Temperature -20~55℃ Humidity 10-90%	Temperature -20~55℃ Humidity 10-90%	Temperature -20~55℃ Humidity 10-90%	Temperature -20~55℃ Humidity 10-90%	Temperature -20~55℃ Humidity 10-90%	Temperature -20~55℃ Humidity 10-90%	Temperature -20~55℃ Humidity 10-90%
Weight	1kg	1.3kg	1.3kg	1.3kg	1.3kg	1.3kg	1.3kg
Thickness	2.0mm	2.0mm	2.0mm	2.0mm	2.0mm	2.0mm	2.0mm
Drive Mode	Static State	Static State	Static State	Static State	Static State	Static State	Static State
Control System	Nova/Colorlight	Nova/Colorlight	Nova/Colorlight	Nova/Colorlight	Nova/Colorlight	Nova/Colorlight	Nova/Colorlight
Lifespan	100000H	100000H	100000H	100000H	100000H	100000H	100000H
Grayscale Level	16bit	16bit	16bit	16bit	16bit	16bit	16bit
Refresh Rate	3840 Hz	3840 Hz	3840 Hz	3840 Hz	3840 Hz	3840 Hz	3840 Hz

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Size Can be Customized

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Decorative Window Films

What are Decorative window films ?

Reeded glass effect window film , Its an affordable alternative to real reeded glass as it can be applied directly to your existing windows and door.
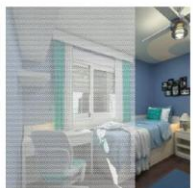
Features

- **Privacy:** Reeded window films provide a semi-private view, making them ideal for spaces where you want some privacy without completely blocking out light

- **Aesthetic Appeal:** These films simulate the look of real reeded glass, adding a sophisticated design element to your windows UV Protection: Many reeded films offer UV protection, helping to reduce the fading of furniture and flooring caused by sunlight

- **Energy Efficiency:** They can help in maintaining indoor temperatures by reducing heat loss in winter and minimizing hot spots in summer

- **Easy Installation:** Reeded films are available in both adhesive and non-adhesive options, making them easy to install and remove without leaving residue

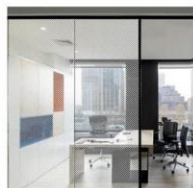**DimGlass**
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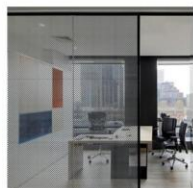# Decorative Window Films

Adhesive Decorative Window Film

Item No.: IT211K
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT213
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT213K
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT214
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT214M
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT216
Material: PET
Thickness: 2mil
Size: 1.52*30m

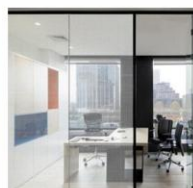Item No.: IT217
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT218
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT301
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT301D-A
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT301D-B
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT301D-C
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT101
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT101K
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT102
Material: PET
Thickness: 2mil
Size: 1.52*30m

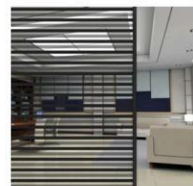Item No.: IT102K
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT103
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT103K
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT105
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT106
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT107
Material: PET
Thickness: 2mil
Size: 1.52*30m

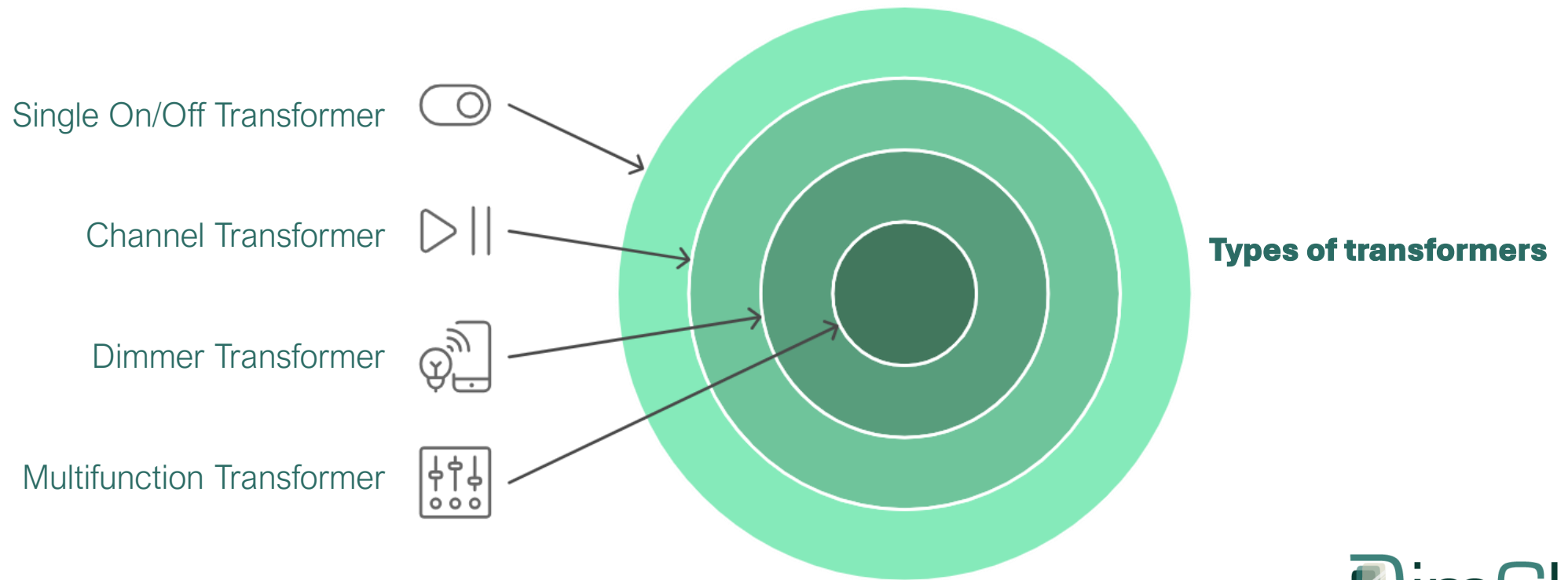Item No.: IT109
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT109N
Material: PET
Thickness: 2mil
Size: 1.52*30m

Item No.: IT110
Material: PET
Thickness: 2mil
Size: 1.52*30m

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Transformers

What are Smart Film Transformers?

- Smart film transformers are specialized electrical devices designed to control the operation of smart films. These transformers provide the necessary voltage and current to switch the smart film between its transparent and opaque states. They are essential for ensuring that the smart film functions correctly and efficiently.

Single On/Off Transformer

Channel Transformer

Dimmer Transformer

Multifunction Transformer

Types of transformers

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Main Areas of Application

Residential and Hotels

Main Areas of Application

Hospitals and Clinics

Main Areas of Application

Store Fronts
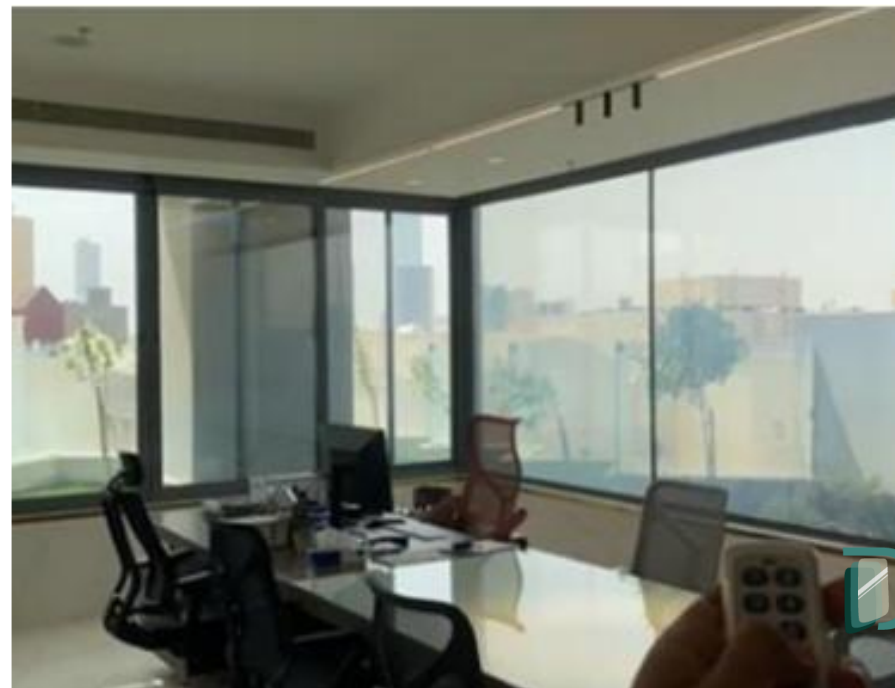
Main Areas of Application

Meeting Rooms

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Main Areas of Application

Offices

Main Areas of Application

Offices

Main Areas of Application

Store fronts and show rooms

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Products Specs and Accessories

Product name	PDLC Adhesive and Non Adhesive film
Working mode:	Power ON: transparent — Power OFF: opaque
Color	Milky white, Dark grey (other colors are available)
Thickness	0.4mm
Width	1000mm、1200mm、1500mm , 1850mm (can be customized within the size range)
Length	0-60m (can be customized within the size range)
IR Reflective	15%
UV Block	98%
driving voltage	60V (AC50/60HZ)
Current	0.08A/㎡
Power consumption	5W/㎡
Light transmittance	91+%
Viewing angle	>160°
Response speed	<0.02s
Operating life	>80,000,00 (switching times)
Service life	>80000 hours
Switching Time	ON-OFF 10ms / OFF-ON 150ms
Switching Times	≥2 million Times
Working Temperature	-30℃— 90 ℃
Storage Temperature	-20℃— 90 ℃

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Products Specs and Accessories

Product name	Photochromatic Film, V70+	Photochromatic Film, V7025	Photochromatic Film, S7520
Working mode:	No Power Needed		
Color	Automatic Tinting		
Thickness	0.09mm	0.08mm	0.08mm
Width	1000mm、1200mm、1500mm，1850mm (can be customized within the size range)		
Length	0-60m (can be customized within the size range)		
Light transmittance	50%		
Glare Reduction	35%	23%	21%
SR Hardness	>2H		
UV Rej	99%		
IR Rej	86%-90%	92%-95%	91%-93%
VLT	75%-35%	70%-25%	75%-23%
VLR	11%	11%	10%
TSER	52%-67%	52%-65%	51%-65%

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Products Specs and Accessories

Product name	Cloaking Optical Film
Working mode:	No Power Needed
Color	Clear Grey
Thickness	0.2mm
Width	1200mm, 1300mm, 1400mm, 1500mm (can be customized within the size range)
Length	0-30.5 m (can be customized within the size range)
Light transmittance	42%
Material	PET + Polyvinyl + Triacetate
Cloaking Efficiency	99.95%

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Products Specs and Accessories

Product name
Transformers

Power	Input Voltage	Output Voltage	Frequency	Size (LWH)	Weight	Max. matching area of PDLC film
30W	220	60V+-0.3V	50-60Hz	120*99*65mm	1.1kg	5m²
50W	220	60V+-0.3V	50-60Hz	120*99*65mm	1.2kg	8m²
100W	220	60V+-0.3V	50-60Hz	180*109*76mm	2.5kg	15m²
200W	220	60V+-0.3V	50-60Hz	200*120*100mm	3.9kg	30m²
300W	220	60V+-0.3V	50-60Hz	200*120*100mm	4.8kg	45m²
500W	220	60V+-0.3V	50-60Hz	200*120*100mm	5.5kg	65m²

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Product Service

Product Warranty and After-Sales Service Policy

Warranty Coverage

From the moment the dimming glass product arrives at the customer's location, it is covered by a **two-year warranty** against quality issues that arise under normal use. During this period, our company, DimGlass, is committed to providing after-sales services at no additional cost, including free repairs or replacements if necessary.

Quality Assurance Services

DimGlass guarantees the quality of each dimming glass product throughout the warranty period. Should any issues arise, we promise to respond within **one week**. Our goal is to ensure that all customer concerns are addressed promptly and effectively.

Post-Warranty Support

After the two-year warranty period, we will continue to support our customers under the agreed implementation plan. We aim to resolve any issues within **14 working days** following the warranty expiration.

After-Sales Services

•**Quality Issues**: If a product quality issue occurs during the warranty period, DimGlass is obligated to provide free repairs or replacements as needed.

•**Damage Due to Misuse**: If the product is damaged due to improper use or falls outside the warranty coverage, repairs will not be covered under the warranty terms.

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