About US: Optical Window Film

- 200,000 m² of film production facilities
- More than 10 sets of Germany magnetron sputtering system and Japanese Nano coating system
- 100 class dust-free purification workshop





ISO Certification



QUALITY MANAGEMENT SYSTEM CERTIFICATE

Registration No. 064-17-Q-2342-R0-M-2

This is to certify that

Shantou Wan Shun Package Material Stock Co., Ltd. (Main certificate) OPTICAL AND ELECTRICAL FILMS BRANCH COMPANY OF SHANTOU WANSHUN PACKAGE MATERIAL STOCK CO., LTD. (Sub certificate)

Unified social credit code: 91440500050742627C

Address: NO. 5-7, BLOCK B03, B04, B06, FREE TRADE ZONE, SHANTOU, GUANGDONG. P.R. CHINA, 515078

Which is in conformity with

GB/T19001-2016 / ISO9001:2015

Scope of Certification

Design and Production of Optical Films and related management activities

Issue date: Dec 05, 2017 Term of validity: Dec 04, 2020

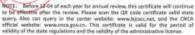












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CCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE

Registration No. 064-15-S-2542-R0-M-2

This is to certify that

Shantou Wan Shun Package Material Stock Co., Ltd. (Main certificate) TICAL AND ELECTRICAL FILMS BRANCH COMPANY OF SHANTOU WANSHUN PACKAGE MATERIAL STOCK CO., LTD. (Sub cortificate)

Unified social credit code: 91440500050742627C

dress: NO.5-7, BLOCK B03, B04, B06, FREE TRADE ZONE, SHANTOU, GUANGDONG, P.R.CHINA, 515078

Which is in conformity with

GB/T28001-2011 / OHSAS18001:2007

Scope of Certification

Design and Production of Optical Films and related management activities

Issue date: Oct 08, 2015 Renewal Date: Dec 05, 2017 Change content. Namiw range

Term of validity: Oct 07, 2018





NOTE: Before 10-07 of each year for annual review, this pertitions will continu to be effective after the review. Please scan the QR code certificate valid state query. Also can query in the center website: www.hjcscc.net, and the CNCA official website: www.cnca.gov.cn. This certificate is valid for the period of validity of the state regulations and the validity of the administrative license.

NAME OF THE PARTY www.binco.ee. afficestoco.com +88-16-04785398

ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Registration No. 064-16-E-2232-R1-M-2

This is to certify that

Shantou Wan Shun Package Material Stock Co., Ltd. (Main certificate) TICAL AND ELECTRICAL FILMS BRANCH COMPANY OF SHANTOU WANSHUN PACKAGE MATERIAL STOCK CO., LTD. (Sub certificate)

Unified social credit code: 91440500050742627C

dress:NO.5-7, BLOCK B03, B04, B06, FREE TRADE ZONE, SHANTOU, GUANGDONG P.R. CHINA, 515078

Which is in conformity with

GB/T24001-2016 / ISO14001:2015

Scope of Certification

Design and Production of Optical Films and related management activities

Issue date: Nov 01, 2016 Term of validity: Oct 31, 2019 Renewal Date: Dec 05, 2017 Change content. Convert varsion, Namow range













NECE: Before 40-81 of each year for annual review, this certificate will continue to be effective after the review. Please scan the CR code certificate valid state query. Also can query in the center website: www.bjcscc.net, and the CNCA official website: www.cnca.gov.cn. This certificate is valid for the period of velicity of the state regulations and the validity of the administrative license.

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Top Energy-Saving Certification













Product Patent







Photochromic Window Film Introduction

Smart Photochromic Window Film is self-developed core patented technology. Automatically adjust the VLT to offer us a comfortable living and working environment against the hot and blinding sunshine, also can protect our eyes.

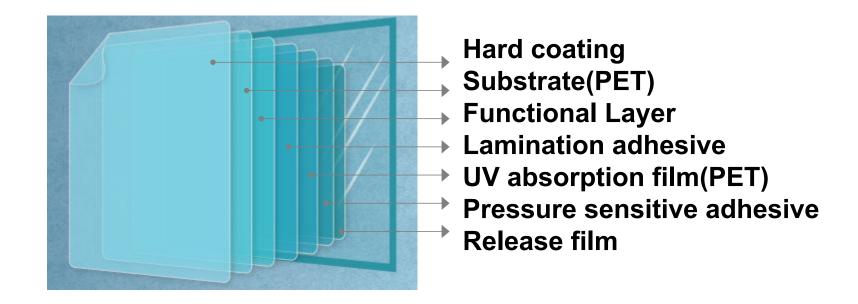








Schematic Diagram for Layer Structure



Product Functions

It is affixed to the surface of the glass to improve glass's performance and strength.

- Automatic adjustment of visible light transmission level
- High IR Reflection to save energy
- UV isolation to protect skin and furniture
- Security protection
- Privacy protection
- Anti-glare
- Anti-Scratch











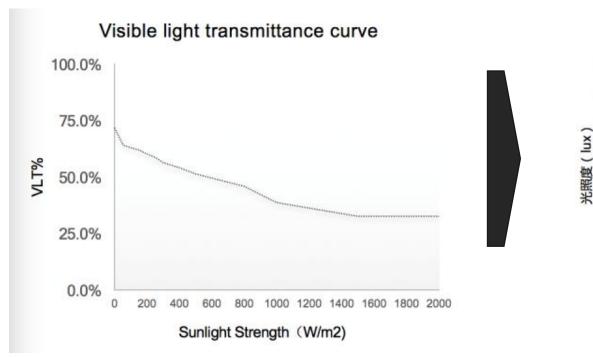


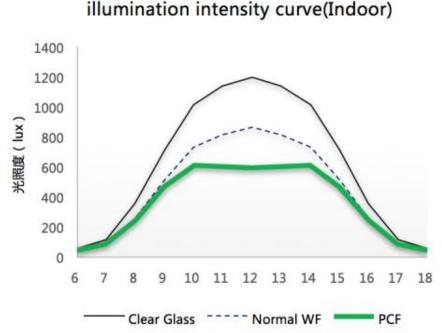




Adjustable VLT

Photochromic molecules constantly and smoothly recalibrate so that the optimal amount of light can get through the window whether in bright sunlight or under cloud.





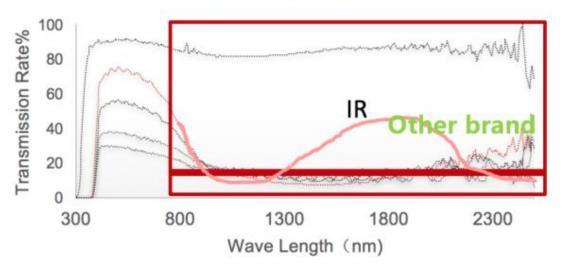


High IR Rejection

We have a real <u>80%</u> rejection rate of <u>full-range IR</u>, which provides a better TSER performance, while some other brands only have some single points.

- TSER up to 65% (W2580B)
- Up to 30% energy-saving in summer

Solar transmission curve





High UV Rejection

All of our window film products contain the highest levels of UV protection,

rejecting up to 99% of harmful UV rays.

Reduce risk of skin cancer

 Fading protection: the life of both vehicle interiors and home interiors is extended





Security protection

Safety films provide a resilient layers of high-tensile polyester and **aggressive adhesives** for impact resistant security.

- Provides exceptional blast and impact-resistant capabilities
- Flying Debris reduces risks associated with broken glass and airborne debris.
- Falling Glass Shards holds broken glass shards in place, helping to avoid a major hazard for passersby.





Speed Test

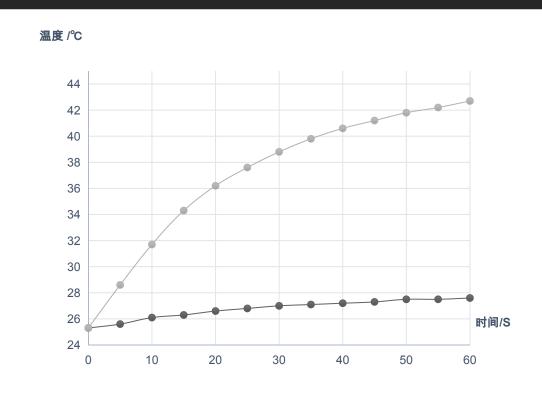


• The film will be darker in 30seconds while explore to the sunshine and it will recover 75% within 5mins without sunlight.



Heat Insulation Test

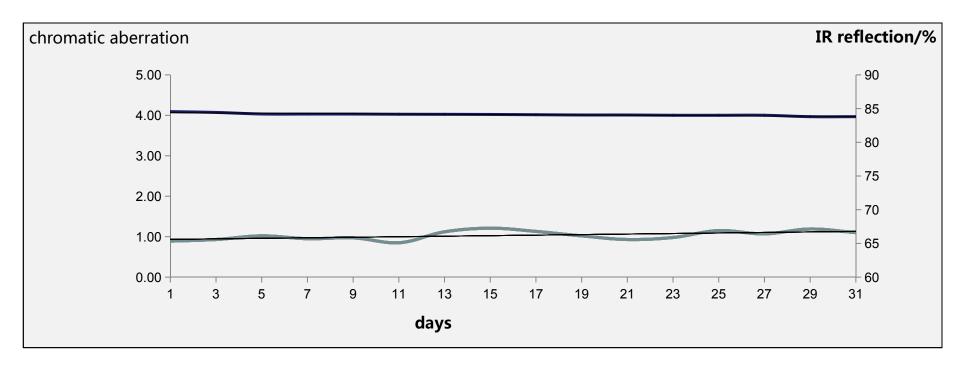




• The temperature of box with film is 29°C while the box without film is 41°C



Radiation Stability Test

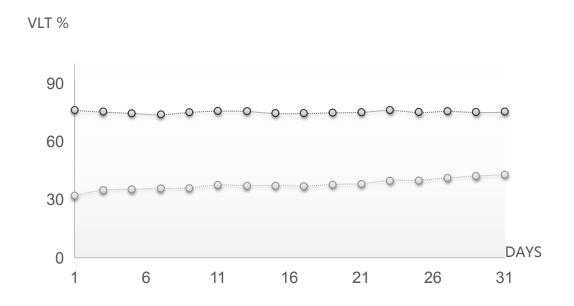


• Chromatic aberration < 1.5, IR rejection aberration < 1.5% within 31days test



High Temperature and Humidity Test

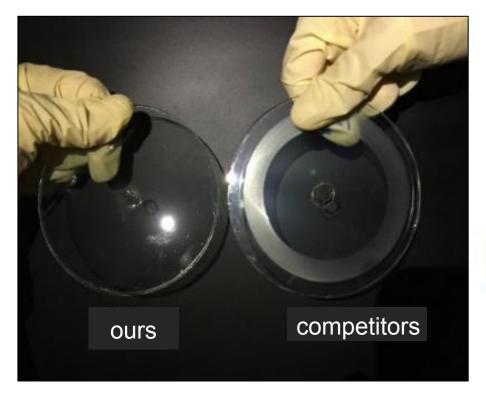




 Optical performance keeps steady under high temperature and humidity。 (85℃, 85%H)



Wear Resistance Test





	F2017E09A00183		果3頁具4				
HARE.	100m = 100m = 4, 03mm	作器设备:	0-00 TANNA151 标准曲纸仪 0-07 SSS-2 高機度事產測定位				
#世界九	ис	年晚相对混乱	12881				
检验项目		MRN					
标准要求	JC 344-2607景景。 政府执助前后村寨及基础内在《95						
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• haze value < 2% after 100 circles



Adhesive Performance Test

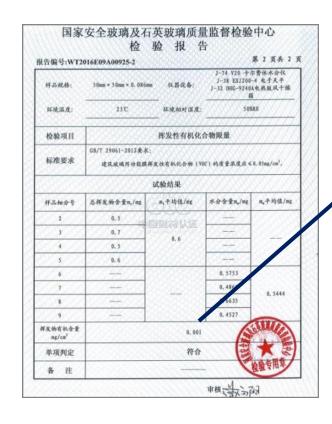


Uniteglass	10N/25mm	>21 days





VOCs (volatile organic compounds) Test



PCF has an Environmental Friendly feature

0.001mg/cm²



Summary

NO	ITEMS	RESULT
1	Speed Test	<30s
2	Heat Insulation Test	The temperature of box with film is 29°C while the box without film is 41 °C
3	Radiation Stability Test	Chromatic aberration <1.5 , IR rejection aberration<1.5% within 31days test
4	High Temperature and Humidity Test	keeps steady within 31 days test
5	Wear Resistance Test	haze value < 2% after 100 circles
6	Adhesive Performance Test	10N >21days
7	VOCs Test	0.001mg/cm ²



Product portfolio

Series	Model	Thickness	UV Block	IR rejection	VLT	TSER
Supreme Series	X55	3mil	>99%	>90%	55%	55%-61%
Supreme Series	X60	2mil	>99%	>60%	60%	47%-57%
Legendary	X70	5mil	>99%	>80%	70%	53%-65%
Series	X70N	4mil	>99%	>80%	70%	53%
	W25	2mil	>99%	>80%	25%	64%-66%
Clary Sories	W35	2mil	>99%	>80%	35%	56%-60%
Glory Series	W50	2mil	>99%	>80%	25%	64%
	W75	2mil	>99%	>80%	50%	54%

X 1.52m*30m/roll



Product portfolio

Series	Model	Thickness	UV Block	IR rejection	VLT	TSER
Classic I Carino	E30N	2mil	>99%	>90%	30%	58%
Classic I Series	E70N	2mil	>99%	>80%	70%	46%
	C25N	2mil	>99%	>75%	25%	68%
Classic II Series	C35N	2mil	>99%	>65%	35%	57%
	C45N	2mil	>99%	>55%	45%	49%
CoolVision	W25N	2mil	>99%	>80%	32%	58%
Series	W50N	2mil	>99%	>80%	72%	46%
Safety Series	WS9000	2mil	/	/	90%	/

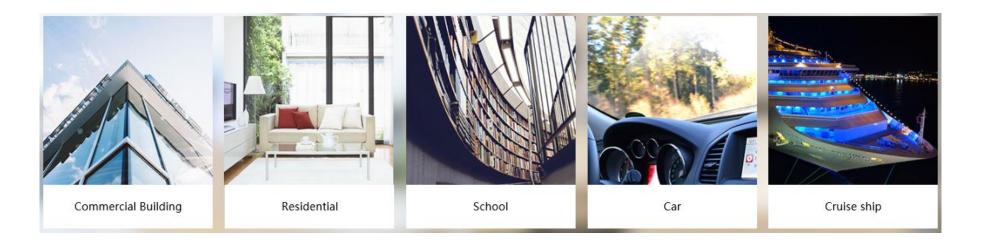
X 1.52m*30m/roll



Applications

Construction: doors, windows and ceilings of commercial buildings, airports, hotels, schools, banks, public places and residential areas, etc.

Vehicle: front, side and rear windows of car, train, aircraft, cruise ships.





Application Cases- Building

CONRAD IN GUANGZHOU













Application Cases – Bus (East Shenzhen)

398 Bus Route: Energy Consumption and Temperature Comparisions								
BUS	Wanshun Photochromic Film	Departure Mileage	Termination Mileage	Battery Remaining (Departure)	Battery Remaining (Termination)	Mileage Travelled	Energy Comsumption	Energy Consumtion% Per Mileage
粤B 04305D	Yes	40877	40893	73%	68%	16	5%	0.31%
粤B 06728D	No	26508	26525	48%	40%	17	8%	0.47%

BUS	Air-conditioning Temperature	Outdoor Temperature	Indoor Temperature	Parking for 1 hr	Feedback from Driver and Passengers
粤B 04305D	24°C	34°C	23.6°C	28°C	Comfortable and cool inside, soften sunlight, no feelings of blazing sun or glare.
粤B 06728D	21°C	34℃	23°C	33°C	Air-con temperature was set at 24°C at the beginning, driver started to feel hot after 10 mins of travelling, indoor temperature went up to 27°C. Then Air-con was turned down to 21°C with room temperature went down to 23°C, the temperature of window seat goes up to 34°C.

M322 Bus Route: Energy Consumption and Temperature Comparisions									
Wanshun Photochromic Film	Departure Mileage	Termination Mileage	Battery Remaining (Departure)	Battery Remaining (Termination)	Mileage Travelled	Energy Comsumption	Energy Consumtion% Per Mileage		
Yes	177061	177087	77%	67%	26	10%	0.38%		
No	247984	248007	63%	51%	23	12%	0.52%		
	Wanshun Photochromic Film Yes	Wanshun Photochromic Film Yes Departure Mileage 177061	Wanshun Photochromic Film Yes Departure Mileage Termination Mileage 177061 177087	Wanshun Photochromic Film Yes Departure Mileage Termination Mileage Mileage (Departure) Termination Mileage (Departure) 77%	Wanshun Photochromic Film Yes Departure Mileage Termination Mileage Mileage Mileage Mileage Battery Remaining (Departure) (Termination) (Termination) (Termination)	Wanshun Photochromic Film Yes Departure Mileage Termination Mileage	Wanshun Photochromic Film Yes Departure Mileage Termination Mileage Mileage Mileage Mileage Departure Mileage Travelled Travelled Comsumption 67% 26 10%		

BUS	Air-conditioning Temperature	Outdoor Temperature	Indoor Temperature	Parking for 1 hr	Feedback from Driver and Passengers
粤B T6140	25°C	33℃	23°C	33°C	Comfortable and cool inside, no feelings of blazing sun or glare
粤B U0151	20°C	33°C	23°C	38°C	Air-con temperature was set at 25°C at the beginning, driver started to feel hot after 10 mileage of travelling. Then Air-con was turned down to 20°C with room temperature went down to 23.9°C, passengers sitting at the back started to feel cold while the driver felt comfortable.

Battery Energy Saving

30%



Application Cases - Vehicle

We have cooperation with some famous Automobile Sales Service shop (Audi/BMW/Benz etc.)









Projects from Power Supply Company Test



The seventh floor without optical film 37°C



The ninth floor with optical film 33°C



The seventh floor without optical film 34°C



The ninth floor with optical film 31°C



Send US Inquiry Now.

