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中国认可  
国际互认  
检测  
TESTING  
CNAS L6910

# Test Report

Name of Product: Smart Film

Requester: Shenzhen Filmbase Technology Co., Ltd.

Manufacturer: Shenzhen Filmbase Technology Co., Ltd.

Test category: Commissioned Inspection



China Quality Certification Centre Huazhong Laboratory

# China Quality Certification Centre Huazhong Laboratory

## Test Report

Report No.: W-15803-2021-BL161\*

Page 1 of 12

Name of product	Smart Film	Date of production	----
Requester	Shenzhen Filmbase Technology Co., Ltd.	Test category	Commissioned Test
Requester address	31F, 3A Building, Smart Park, Baolong, Longgang, Shenzhen	Sample grade	----
Manufacturer	Shenzhen Filmbase Technology Co., Ltd.	Sample status	Intact
Manufacturer address	31F, 3A Building, Smart Park, Baolong, Longgang, Shenzhen	Sampler	----
Sampling base	----	Sampling date	----
Receiving date	2021-09-15	Completion date	2021-09-24
Methods	GB/T 2410-2008 《Determination of luminous transmittance and haze of transparent plastics》 GB/T 2680-1994 《Glass in building-Determination of light transmittance, solar direct transmittance, total solar energy transmittance, ultraviolet transmittance and related glazing factors》 GB/T 22476-2008 《Calculation and determination of the steady-state U value (thermal transmittance) of multiple glazing》		
Test item	Light transmittance, solar direct transmittance, solar direct reflectance, solar direct absorption, total solar energy transmittance, shading coefficient, ultraviolet transmittance, thermal transmittance, normal reflectance, standard emissivity, corrected emissivity, haze (power on, power off), luminous transmittance (power on, power off)		
Sample description	Model:LF-S-WT-N Specification and quantity: 100 mm×100mm      3 pieces		
Conclusion	The results are shown in actual measured values. (China Quality Certification Centre Huazhong Laboratory)		
Remarks			

Approved by:  
Yuanxin Chen

陈远新

Verified by:  
Subo Feng

冯素波

Tested by:  
Xia Wu

吴霞



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## Test Report

Report No.: W-15803-2021-BL161\*

Page 2 of 12

Sample size: 100mm×100mm      Sample condition: intact

Test environment: temperature: 22°C, humidity: 58%RH

Instrument: ultraviolet/visible/near infrared spectrophotometer, fourier transform infrared spectrometer

Test item	Sample serial number	Results (power off)	Results (power on)
Light transmittance ( $T_{vis}$ )	WBL165-M-1	74.11%	85.04%

Note: 1. Power off: It means that the power supply is not connected during testing;

2. Power on: It means that the power supply is connected during testing (the power supply is provided by the enterprise, and the power-on voltage is 60V).

Tested by: 吴霞

Verified by: 冯素波

Date: 2021-09-24

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## Test Report

Report No.: W-15803-2021-BL161\*

Page 3 of 12

Sample size: <u>100mm×100mm</u> Sample condition: <u>intact</u> Test environment: <u>temperature: 22°C, humidity: 58%RH</u> Instrument: <u>ultraviolet/visible/near infrared spectrophotometer, fourier transform infrared spectrometer</u>			
Test item	Sample serial number	Results (power off)	Results (power on)
Total solar energy transmittance (SHGC)	WBL165-M-1	74.1%	82.3%
Note: 1. Power off: It means that the power supply is not connected during testing; 2. Power on: It means that the power supply is connected during testing (the power supply is provided by the enterprise, and the power-on voltage is 60V).			

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## Test Report

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Page 4 of 12

Sample size: 100mm×100mm

Sample condition: intact

Test environment: temperature: 22°C, humidity: 58%RH

Instrument: ultraviolet/visible/near infrared spectrophotometer, fourier transform infrared spectrometer

Test item	Sample serial number	Results (power off)	Results (power on)
Shading coefficient (SC)	WBL165-M-1	85.2%	94.6%

Note: 1. Power off: It means that the power supply is not connected during testing;

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Tested by: 吴霞

Verified by: 冯泰波

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## Test Report

Report No.: W-15803-2021-BL161\*

Page 5 of 12

Sample size: 100mm×100mm

Sample condition: intact

Test environment: temperature: 22°C, humidity: 58%RH

Instrument: ultraviolet/visible/near infrared spectrophotometer, fourier transform infrared spectrometer

Test item	Sample serial number	Results (power off)	Results (power on)
Ultraviolet transmittance ( $T_{uv}$ )	WBL165- M-1	20.19%	31.24%

Note: 1. Power off: It means that the power supply is not connected during testing;

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Verified by: 冯泰波

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## Test Report

Report No.: W-15803-2021-BL161\*

Page 6 of 12

Sample size: 100mm×100mm

Sample condition: intact

Test environment: temperature: 22°C, humidity: 58%RH

Instrument: ultraviolet/visible/near infrared spectrophotometer, fourier transform infrared spectrometer

Test item	Sample serial number	Results (power off)	Results (power on)
Thermal transmittance W/(m <sup>2</sup> k)	WBL165- M-1	5.603	5.581

Note: 1. Power off: It means that the power supply is not connected during testing;

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## Test Report

Report No.: W-15803-2021-BL161\*

Page 7 of 12

Sample size: 100mm×100mm

Sample condition: intact

Test environment: temperature: 22°C, humidity: 58%RH

Instrument: ultraviolet/visible/near infrared spectrophotometer and Fourier transform infrared spectrometer

Test item	Sample serial number	Results (power off)	Results (power on)
Direct solar transmittance ( $T_{sol}$ )	WBL165-M-1	73.85%	80.02%

Note: 1. Power off: It means that the power supply is not connected during testing;

2. Power on: It means that the power supply is connected during testing (the power supply is provided by the enterprise, and the power-on voltage is 60V).

Tested by: 吴霞

Verified by: 冯泰波

Date: 2021-09-24

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**China Quality Certification Centre Huazhong Laboratory**  
**Test Report**

Report No.: W-15803-2021-BL161\*

Page 8 of 12

Sample size: 100mm×100mm

Sample condition: intact

Test environment: temperature: 22°C, humidity: 58%RH

Instrument: ultraviolet/visible/near infrared spectrophotometer, fourier transform infrared spectrometer

Test item	Sample serial number	Results (power off)	Results (power on)
Solar direct absorption	WBL165-M-1	3.50%	2.04%

Note: 1. Power off: It means that the power supply is not connected during testing;

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## Test Report

Report No.: W-15803-2021-BL161\*

Page 9 of 12

Sample size: 100mm×100mm

Sample condition: intact

Test environment: temperature: 22°C, humidity: 58%RH

Instrument: ultraviolet/visible/near infrared spectrophotometer, fourier transform infrared spectrometer

Test item	Sample serial number	Results (power off)	Results (power on)
Standard emissivity	WBL165-M-1	0.917	0.917

Note: 1. Power off: It means that the power supply is not connected during testing;

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Verified by: 冯泰波

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## Test Report

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Page 10 of 12

Sample size: 100mm×100mm

Sample condition: intact

Test environment: temperature: 22°C, humidity: 58%RH

Instrument: ultraviolet/visible/near infrared spectrophotometer, fourier transform infrared spectrometer

Test item	Sample serial number	Results (power off)	Results (power on)
Normal reflectance	WBL165-M-1	8.26%	8.32%

Note: 1. Power off: It means that the power supply is not connected during testing;

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## Test Report

Report No.: W-15803-2021-BL161\*

Page 11 of 12

Sample size: 100mm×100mm

Sample condition: intact

Test environment: temperature: 22°C, humidity: 58%RH

Instrument: ultraviolet/visible/near infrared spectrophotometer, fourier transform infrared spectrometer

Test item	Sample serial number	Results (power off)	Results (power on)
Corrected emissivity	WBL165-M-1	0.860	0.859

Note: 1. Power off: It means that the power supply is not connected during testing;

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Page 12 of 12

Sample size: <u>100mm×100mm</u> Sample condition: <u>intact</u>			
Test environment: <u>temperature: 22°C, humidity: 58%RH</u>			
Instrument: <u>high-precision haze tester</u>			
Test item	Sample serial number	Results (power failure)	Results (energized)
Haze	WBL165-M-1	100.00%	3.75%
	WBL165-M-2	100.00%	3.72%
	WBL165-M-3	100.00%	3.99%
Luminous transmittance	WBL165-M-1	67.96%	81.54%
	WBL165-M-2	67.60%	81.56%
	WBL165-M-3	68.84%	82.15%
<p>Note: 1. Power off: It means that the power supply is not connected during testing;</p> <p>2. Power on: It means that the power supply is connected during testing (the power supply is provided by the enterprise, and the power-on voltage is 60V).</p>			

Tested by: 吴霞

Verified by: 冯素波

Date: 2021-09-24

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## List of test instruments

Number	Instrument	Model	Serial number	Measurement validity	Use
1	Ultraviolet/visible/ near infrared spectrophotometer	Lambda 950	CQCBL001	2022-07-29	√
2	Fourier transform infrared spectrometer	Frontier	CQCBL002	2021-12-26	√
3	High-precision haze tester	SGH-2	CQCBL028	2021-12-26	√

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## Statement

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