EVA FILM CATALOG

INTERLAYER FOR LAMINATED GLASS

MADE IN CHINA



NANJING E-SHINE NEW MATERIAL TECH.CO.,LTD.
Tel:+86 1770516 9512(WhatsApp)
Email:njgushang@163.com / eshinefilm@gmail.com

CLEAR EVA FILM

INTERIOR CLEAR



Thickness	Width	Length
0.25mm	≤2600	150m
0.38mm	≤2700	100m
0.5mm	≤2700	80m
0.76mm	≤2700	50m

Test Items	Unit	Performance Index
Melting point	℃	63
Density	g/cm³	0.951
Glass Transition Temp	℃	-45
Tensile Strength	Mpa	31
Elongation(before lamination)	%	774
Water Absorption	%	≤0.1
Haze	%	0.8
VL Transmittance	%	87.4
Bonding Strength	N/10mm	95
UV Blocking	%	40
85℃85%humidity 1000hours	T%	80
Shot-bag Impact test	1200mm	Qualified
Ball impact peeling test	3000mm	Qualified
Humidity aging resistance	/	Qualified

CLEAR EVA FILM

SUPER CLEAR

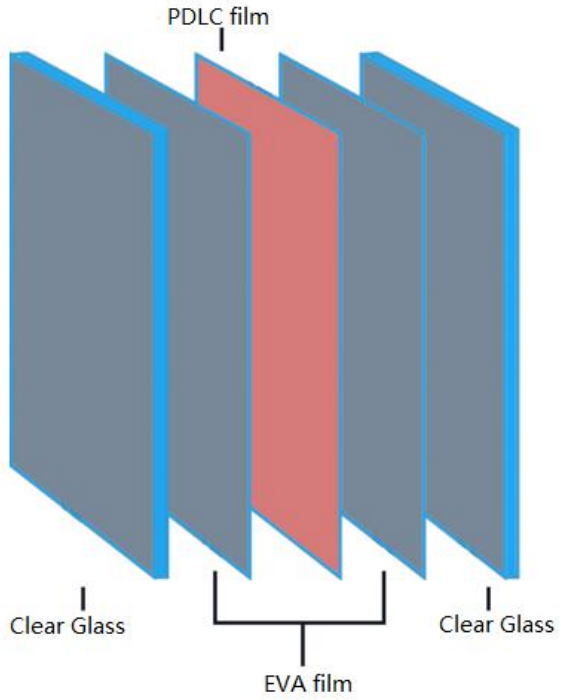


Thickness	Width	Length
0.25mm	≤2600	150m
0.38mm	≤2700	100m
0.5mm	≤2700	80m
0.76mm	≤2700	50m
1.14mm	≤2700	40m
1.52mm	≤2700	30m

Test Items	Unit	Performance Index
Melting point	℃	66
Density	g/cm³	0.954
Glass Transition Temp	℃	-45
Tensile Strength	Mpa	24.9
Elongation(before lamination)	%	811
Water Absorption	%	≤0.1
Haze	%	0.25
VL Transmittance	%	90
Bonding Strength	N/10mm	98
UV Blocking	%	≥85
85℃85%humidity 1000hours	T%	88
Shot-bag Impact test	1200mm	Qualified
Ball impact peeling test	3000mm	Qualified
Humidity aging resistance	/	Qualified

CLEAR EVA FILM

ULTRA CLEAR



Thickness	Width	Length
0.66mm	≤2700	50m
0.76mm	≤2700	50m
0.80mm	≤2700	50m

Test Items	Unit	Performance Index
Melting point	℃	64
Density	g/cm³	0.988
Glass Transition Temp	℃	-40
Tensile Strength	Mpa	18.75
Elongation(before lamination)	%	755
Water Absorption	%	≤0.18
Haze	%	0.15
VL Transmittance	%	92
Bonding Strength	N/10mm	138
UV Blocking	%	87
85℃85%humidity 1000hours	T%	90
Shot-bag Impact test	1200mm	Qualified
Ball impact peeling test	3000mm	Qualified
Humidity aging resistance	/	Qualified

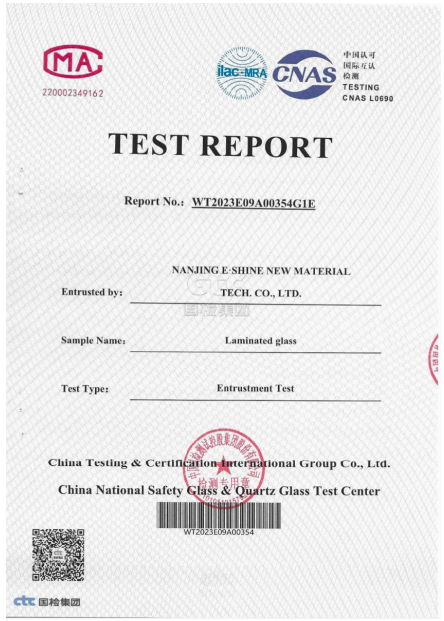
WHITE & COLORFUL EVA



color	width(mm)	length(m)
white	2000mm-2500mm	50m/roll or 100m/roll
coloful	2400mm/2450mm	50m/roll

We can supply about 13 types white EVA film with different transparency, mainly use white opaque/sandblasting /milky white. Re colorful, we have 30 transparent EVA film and 9 opaque EVA film. Processing temperature and time setting is 63℃ 30mins,105℃-110℃ 50mins(5mm+5mm)

TEST REPORT



220002349162

TESTING
CNAS L0690

TEST REPORT

Report No.: WT2023E09A00354G1E

NANJING E-SHINE NEW MATERIAL
TECH. CO., LTD.

Entrusted by:

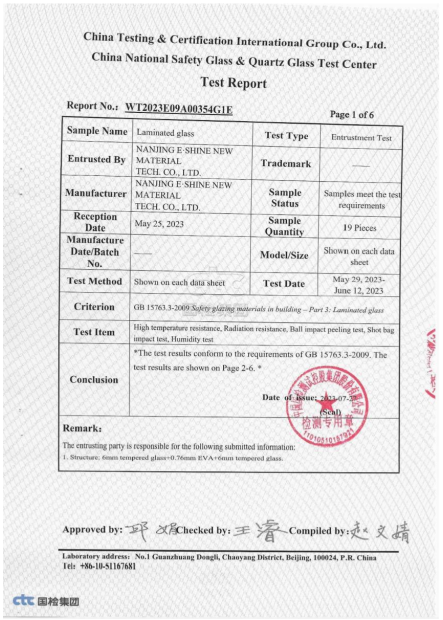
Sample Name: Laminated glass

Test Type: Entrustment Test

China Testing & Certification International Group Co., Ltd.
China National Safety Glass & Quartz Glass Test Center

WT2023E09A00354

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China National Safety Glass & Quartz Glass Test Center
Test Report

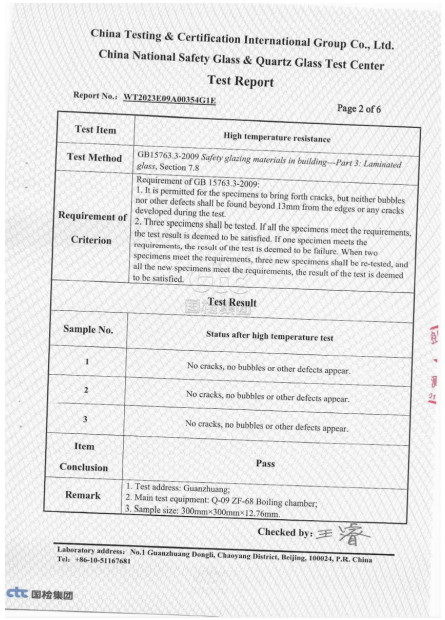
Report No.: WT2023E09A00354G1E Page 1 of 6

Sample Name	Laminated glass	Test Type	Entrustment Test
Entrusted By	NANJING E-SHINE NEW MATERIAL TECH. CO., LTD.	Trademark	——
Manufacturer	NANJING E-SHINE NEW MATERIAL TECH. CO., LTD.	Sample Status	Samples meet the test requirements
Reception Date	May 25, 2023	Sample Quantity	19 Pieces
Manufacture Date/Batch No.	——	Model/Size	Shown on each data sheet
Test Method	Shown on each data sheet	Test Date	May 29, 2023-June 12, 2023
Criterion	GB 15763.3-2009 *Safety glazing materials in building—Part 3: Laminated glass*		
Test Item	High temperature resistance, Radiation resistance, Ball impact peeling test, Shot bag impact test, Humidity test		
Conclusion	*The test results conform to the requirements of GB 15763.3-2009. The test results are shown on Page 2-6. * Date of Issue: 2023-07-25 (Seal)		
Remark: The entrusting party is responsible for the following submitted information: 1. Structure: 6mm tempered glass+0.76mm EVA+6mm tempered glass.			

Approved by: Checked by: 王淳 Compiled by:

Laboratory address: No.1 Guanzhuang Dongli, Chaoyang District, Beijing, 100024, P.R. China
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Test Report

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Test Item	High temperature resistance
Test Method	GB15763.3-2009 *Safety glazing materials in building—Part 3: Laminated glass*, Section 7.8
Requirement of Criterion	Requirement of GB 15763.3-2009: 1. It is permitted for the specimens to bring forth cracks, but neither bubbles nor other defects shall be found beyond 13mm from the edges or any cracks developed during the test. 2. Three specimens shall be tested. If all the specimens meet the requirements, the test result is deemed to be satisfied. If one specimen meets the requirements, the result of the test is deemed to be failure. When two specimens meet the requirements, three new specimens shall be re-tested, and all the new specimens meet the requirements, the result of the test is deemed to be satisfied.

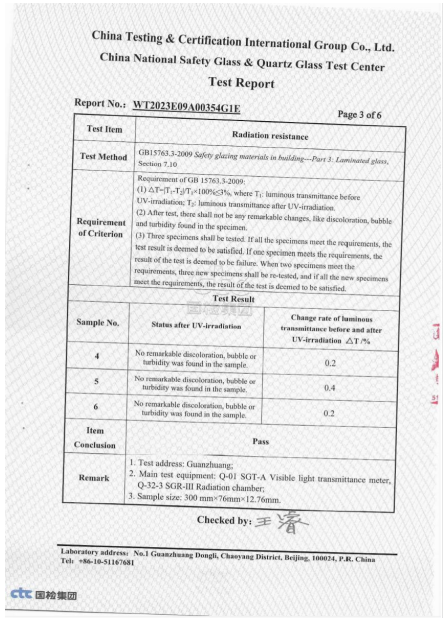
Test Result

Sample No.	Status after high temperature test
1	No cracks, no bubbles or other defects appear.
2	No cracks, no bubbles or other defects appear.
3	No cracks, no bubbles or other defects appear.
Item Conclusion	Pass
Remark	1. Test address: Guanzhuang; 2. Main test equipment: Q-09 ZF-68 Boiling chamber; 3. Sample size: 300mm×300mm×12.76mm.

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Test Report

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Test Item	Radiation resistance
Test Method	GB15763.3-2009 *Safety glazing materials in building—Part 3: Laminated glass*, Section 7.10
Requirement of Criterion	Requirement of GB 15763.3-2009: (1) $\Delta T=[T_1-T_2]/T_1\times100\%\leq3\%$, where T_1: luminous transmittance before UV-irradiation; T_2: luminous transmittance after UV-irradiation. (2) After test, there shall not be any remarkable changes, like discoloration, bubble and turbidity found in the specimen. (3) Three specimens shall be tested. If all the specimens meet the requirements, the test result is deemed to be satisfied. If one specimen meets the requirements, the result of the test is deemed to be failure. When two specimens meet the requirements, three new specimens shall be re-tested, and if all the new specimens meet the requirements, the result of the test is deemed to be satisfied.

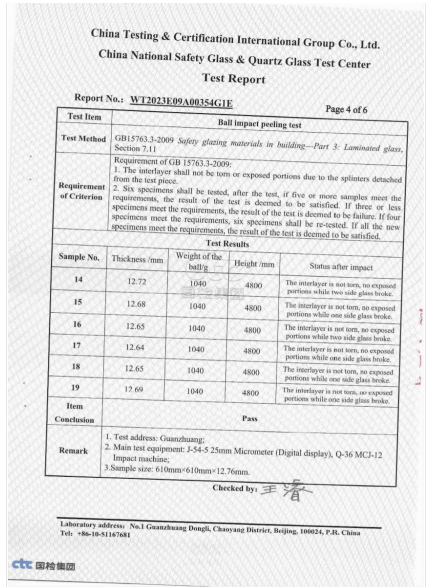
Test Result

Sample No.	Status after UV-irradiation	Change rate of luminous transmittance before and after UV-irradiation ΔT /%
4	No remarkable discoloration, bubble or turbidity was found in the sample.	0.2
5	No remarkable discoloration, bubble or turbidity was found in the sample.	0.4
6	No remarkable discoloration, bubble or turbidity was found in the sample.	0.2
Item Conclusion	Pass	
Remark	1. Test address: Guanzhuang; 2. Main test equipment: Q-01 SGT-A Visible light transmittance meter, Q-32-3 SGR-III Radiation chamber; 3. Sample size: 300 mm×76mm×12.76mm.	

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China National Safety Glass & Quartz Glass Test Center
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Test Item	Ball impact peeling test
Test Method	GB15763.3-2009 *Safety glazing materials in building—Part 3: Laminated glass*, Section 7.11
Requirement of Criterion	Requirement of GB 15763.3-2009: 1. The interlayer shall not be torn or exposed portions due to the splinters detached from the test piece. 2. Six specimens shall be tested, after the test, if five or more samples meet the requirements, the result of the test is deemed to be satisfied. If three or less specimens meet the requirements, the result of the test is deemed to be failure. If four specimens meet the requirements, six specimens shall be re-tested. If all the new specimens meet the requirements, the result of the test is deemed to be satisfied.

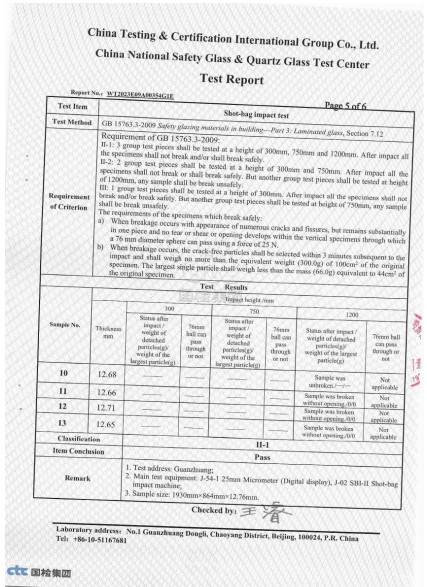
Test Results

Sample No.	Thickness /mm	Weight of the ball/g	Height /mm	Status after impact
14	12.72	1040	4800	The interlayer is not torn, no exposed portions while two side glass broke.
15	12.68	1040	4800	The interlayer is not torn, no exposed portions while one side glass broke.
16	12.65	1040	4800	The interlayer is not torn, no exposed portions while two side glass broke.
17	12.64	1040	4800	The interlayer is not torn, no exposed portions while one side glass broke.
18	12.65	1040	4800	The interlayer is not torn, no exposed portions while one side glass broke.
19	12.69	1040	4800	The interlayer is not torn, no exposed portions while one side glass broke.
Item Conclusion	Pass			
Remark	1. Test address: Guanzhuang; 2. Main test equipment: J-54-5 25mm Micrometer (Digital display), Q-36 MCJ-12 Impact machine; 3.Sample size: 610mm×610mm×12.76mm.			

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Test Item	Shot-bag impact test
Test Method	GB 15763.3-2009 *Safety glazing materials in building—Part 3: Laminated glass*, Section 7.12
Requirement of Criterion	Requirement of GB 15763.3-2009: II-1: 3 group test pieces shall be tested at a height of 300mm, 750mm and 1200mm. After impact all the specimens shall not break and/or shall break safely. II-2: 2 group test pieces shall be tested at a height of 300mm and 750mm. After impact all the specimens shall not break or shall break safely. But another group test pieces shall be tested at height of 1200mm, any sample shall be break unsafely. III: 1 group test pieces shall be tested at a height of 300mm. After impact all the specimens shall not break and/or break safely. But another group test pieces shall be tested at height of 750mm, any sample shall be break unsafely. The requirements of the specimens which break safely: a) When breakage occurs with appearance of numerous cracks and fissures, but remains substantially in one piece and no tear or shear or opening develops within the vertical specimens through which a 76 mm diameter sphere can pass using a force of 25 N. b) When breakage occurs, the crack-free particles shall be selected within 3 minutes subsequent to the impact and shall weigh no more than the equivalent weight (300.0g) of 100cm² of the original specimen. The largest single particle shall weigh less than the mass (66.0g) equivalent to 44cm² of the original specimen.

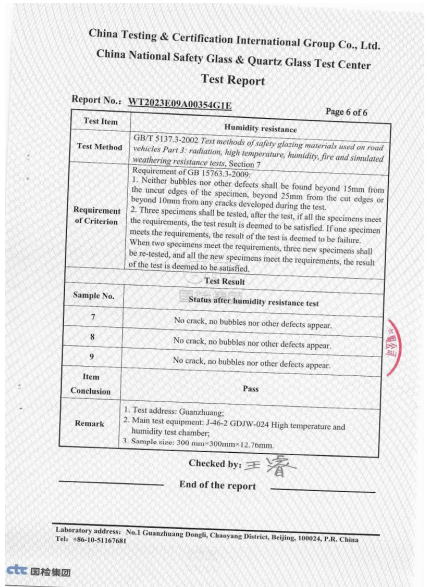
Test Results

Sample No.	Thickness mm	Impact height /mm: 300			750			1200	
		Status after impact / weight of detached particle(s)/ weight of the largest particle(g)	76mm ball can pass through or not	Status after impact / weight of detached particle(g)/ weight of the largest particle(g)	76mm ball can pass through or not	Status after impact / weight of detached particle(g)/ weight of the largest particle(g)	76mm ball can pass through or not
10	12.68	——	——	——	——	Sample was unbroken.——	Not applicable
11	12.66	——	——	——	——	Sample was broken without opening./0/0	Not applicable
12	12.71	——	——	——	——	Sample was broken without opening./0/0	Not applicable
13	12.65	——	——	——	——	Sample was broken without opening./0/0	Not applicable
Classification	II-1						
Item Conclusion	Pass						
Remark	1. Test address: Guanzhuang; 2. Main test equipment: J-54-1 25mm Micrometer (Digital display), J-02 SBI-II Shot-bag Impact machine; 3. Sample size: 1930mm×864mm×12.76mm.						

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Test Report

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Test Item	Humidity resistance
Test Method	GB/T 5137.3-2002 *Test methods of safety glazing materials used on road vehicles Part 3: radiation, high temperature, humidity, fire and simulated weathering resistance tests*, Section 7
Requirement of Criterion	Requirement of GB 15763.3-2009: 1. Neither bubbles nor other defects shall be found beyond 15mm from the uncut edges of the specimen, beyond 25mm from the cut edges or beyond 10mm from any cracks developed during the test. 2. Three specimens shall be tested, after the test, if all the specimens meet the requirements, the test result is deemed to be satisfied. If one specimen meets the requirements, the result of the test is deemed to be failure. When two specimens meet the requirements, three new specimens shall be re-tested, and all the new specimens meet the requirements, the result of the test is deemed to be satisfied.

Test Result

Sample No.	Status after humidity resistance test
7	No crack, no bubbles nor other defects appear.
8	No crack, no bubbles nor other defects appear.
9	No crack, no bubbles nor other defects appear.
Item Conclusion	Pass
Remark	1. Test address: Guanzhuang; 2. Main test equipment: J-46-2 GDJW-024 High temperature and humidity test chamber; 3. Sample size: 300 mm×300mm×12.76mm.

Checked by: 王淳

End of the report

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ENVIRONMENT



Constant temperature and humidity closed workshop



EVA film sample room



loading container of EVA Film