



TEST REPORT

Report No.: <u>WT2023E09A00354G1E</u>

	NANJING E-SHINE NEW MATERIAL
Entrusted by:	TECH. CO., LTD.
Sample Name:	Laminated glass
Test Type:	Entrustment Test

China Testing & Certification International Group Co., Ltd.

China National Safety Glass & Quartz Glass Test Center









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

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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 tes
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 m	aterials in building – Po	
Test Item	High temperature resistance, Radian impact test, Humidity test	ion resistance, Ball imp	pact peeling test, Shot bag
Conclusion	*The test results conform to the test results are shown on Page 2	(~\0\\\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	股集团企

Remark:

The entrusting party is responsible for the following submitted information:

1. Structure: 6mm tempered glass+0.76mm EVA+6mm tempered glass.

Approved by: 或 X Checked by: 主 着 Compiled by: 支炎 交精

Laboratory address: No.1 Guanzhuang Dongli, Chaoyang District, Beijing, 100024, P.R. China Tel: +86-10-51167681



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Test Item	High temperature resistance			
Test Method	GB15763.3-2009 Safety glazing materials in buildingPart 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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Radiation resistance				
GB15763.3-2009 Safety glazing materials in buildingPart 3: Laminated glass, Section 7.10				
(3) Three specimens shall be tested. If all the test result is deemed to be satisfied. If one satisfied the test is deemed to be failure. Where the test is deemed to be failure. Where the test is deemed to be failure.	e after UV-irradiation. Eable changes, like discoloration, bubble the specimens meet the requirements, the specimen meets the requirements, the then two specimens meet the			
Test Result	- restrict to be satisfied.			
Status after UV-irradiation	Change rate of luminous transmittance before and after UV-irradiation ΔT /%			
No remarkable discoloration, bubble or turbidity was found in the sample.	0.2			
No remarkable discoloration, bubble or turbidity was found in the sample.	0.4			
No remarkable discoloration, bubble or turbidity was found in the sample.	0.2			
Pass				
 Test address: Guanzhuang; Main test equipment: Q-01 SGT-A Q-32-3 SGR-III Radiation chamber; Sample size: 300 mm×7(mmx) 12.76 				
	GB15763.3-2009 Safety glazing materials Section 7.10 Requirement of GB 15763.3-2009: (1) △T= T₁-T₂ /T₁×100%≤3%, where T₁: 1 UV-irradiation; T₂: luminous transmittance (2) After test, there shall not be any remark and turbidity found in the specimen. (3) Three specimens shall be tested. If all the test result is deemed to be satisfied. If one is result of the test is deemed to be failure. Where the requirements, there new specimens shall be meet the requirements, the result of the test. Test Result Status after UV-irradiation No remarkable discoloration, bubble or turbidity was found in the sample. No remarkable discoloration, bubble or turbidity was found in the sample. No remarkable discoloration, bubble or turbidity was found in the sample. Pass 1. Test address: Guanzhuang; 2. Main test equipment: Q-01 SGT-A			

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Test Item	Page 4 of 6					
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	GB15763.3-2009 Safety glazing materials in buildingPart 3: Laminated gla					
Test Method						
Requirement of Criterion	from the test pie 2. Six speciment requirements, the specimens meet specimens meet	s shall be tested be result of the the requirements, the requirements	after the test test is deemed the result of the	ortions due to the splinters detach, if five or more samples meet to do to be satisfied. If three or lee test is deemed to be failure. If for shall be re-tested. If all the new test is deemed to be satisfied.		
		Test R	Results	e see is deemed to be satisfied.		
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 2	1. Test address: Gu 2. Main test equipr Impact machine; 5. Sample size: 610	nent: J-54-5 25mr	TYPE AND	Digital display), Q-36 MCJ-12		

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Test Report

Test Item		Page 5 of 6					
Test Method	GB 15763 3 2000 S. C						
10 10 10 10 10 10 10 10 10 10 10 10 10 1	Requir	GB 15763.3-2009 Safety glazing materials in buildingPart 3: Laminated glass, Section 7.12 Requirement of GB 15763.3-2009:					
Requirement of Criterion	the specification of 1200r III: 1 growth of 1	group test pieces so imens shall not break group test pieces and shall not break and, any sample shall pieces shall door break safely. It break unsafely, irements of the spean and breakage occurs are piece and no teat and diameter sphern and breakage occurs, ct and shall weigh	hall be test and/or shall be to shall be to shall be tested another with appear or shear re can pass the crack-	sted at a height of shall break safely. tested at a height reak safely. But an ak unsafely. d at a height of 30 er group test pieces hich break safely: arance of numerous or opening develops using a force of 2 free particles shall	of 300minother ground of 300mm. After shall be tended as cracks a ps within the 25 N.	50mm and 1200mm. After in and 750mm. After ip test pieces shall be reter impact all the speciested at height of 750mm. The vertical specimens and within 3 minutes sub (300.0g) of 100cm ² comass (66.0g) equivalent.	impact all tested at heimens shall im, any sam substantia through whi
	the o	riginal specimen.		Mark Control	s man me	mass (66.0g) equivaler	nt to 44cm ²
			Tes				
	XXX	Impact height /mm					
		Status after	XX	750 Status after		1200	90.606A
Sample No.	Thickness mm	impact / weight of detached particles(g)/ weight of the largest particle(g)	76mm ball can pass through or not	impact / weight of detached particles(g)/ weight of the largest particle(g)	76mm ball can pass through or not	Status after impact / weight of detached particles(g)/ weight of the largest particle(g)	76mm bal can pass through or not
		D21 -					16/9/2/0/Ma
10	12.68				(2/2/2/ 0	Sample was unbroken /—/—	Not
10	12.68 12.66					unbroken./—/— Sample was broken	Not applicable Not
						unbroken./—/— Sample was broken without opening./0/0	applicable Not applicable
11	12.66					unbroken./—/— Sample was broken without opening./0/0 Sample was broken without opening./0/0	applicable Not
11 12 13	12.66 12.71 12.65					unbroken./—/— Sample was broken without opening./0/0 Sample was broken	Not applicable Not applicable Not applicable Not
11 12 13 Classification	12.66 12.71 12.65			TI-	1	unbroken./—/— Sample was broken without opening./0/0 Sample was broken without opening./0/0 Sample was broken	applicable Not applicable Not applicable
11 12 13	12.66 12.71 12.65	1. Test address: G		Pas	VXVXVX	unbroken./—/— Sample was broken without opening./0/0 Sample was broken without opening./0/0 Sample was broken	Not applicable Not applicable Not applicable Not

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Humidity resistance			
GB/T 5137.3-2002 Test methods of safety glazing materials used vehicles Part 3: radiation, high temperature, humidity, fire and six weathering resistance tests. Section 7			
Requirement of GB 15763.3-2009: 1. Neither bubbles nor other defects shall be foun the uncut edges of the specimen, beyond 25mm beyond 10mm from any cracks developed during the 2. Three specimens shall be tested, after the test, if a the requirements, the test result is deemed to be satisfactors the requirements, the requirements there when two specimens meet the requirements.	d beyond 15mm from from the cut edges of e test. If the specimens meet of the specimen ed to be failure.		
Test Result			
Status after humidity resistance test			
No crack, no bubbles nor other defects appear.			
No crack, no bubbles nor other defects appear.			
No crack, no bubbles nor other defects appear.			
Pass			
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.			
NAME OF THE PARTY	GB/T 5137.3-2002 Test methods of safety glazing in vehicles Part 3: radiation, high temperature, humid weathering resistance tests, Section 7 Requirement of GB 15763.3-2009: 1. Neither bubbles nor other defects shall be foun the uncut edges of the specimen, beyond 25mm; beyond 10mm from any cracks developed during the 2. Three specimens shall be tested, after the test, if a the requirements, the test result is deemed to be satisfact meets the requirements, the result of the test is deemed When two specimens meet the requirements, three in be re-tested, and all the new specimens meet the requirement of the test is deemed to be satisfied. Test Result Status after humidity resistance in No crack, no bubbles nor other defects. No crack, no bubbles nor other defects are no bubbles nor other defects. No crack, no bubbles nor other defects are no bubbles nor other defects. Pass 1. Test address: Guanzhuang; 2. Main test equipment: J-46-2 GDJW-024 High temperature, humidity resistance in the control of the speciment in the control of the test is deemed to be satisfied.		

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End of the report

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