Test Report

No.: [redacted] Date: JAN.09,2026 Page: 1 of 7

LINYI CUZI PLYWOOD CO.,LTD
LIUZHUANG PLYWOOD INDUSTRIAL PARK 3-8,TANYI TOWN, FEIXIAN COUNTY, SHANDONG, CHINA

The following sample(s) was/were submitted and identified by the client as:

Sample Description	: 18MM PLYWOOD BOARDS WITH FILM PAPER AND MELAMINE PAPER
Manufacturer	: LINYI CUZI PLYWOOD CO.,LTD
Country of Origin	: CHINA
Country of Destination	: AUSTRALIA
Sample Receiving Date	: NOV.30,2025
Testing Period	: NOV.30,2025 TO JAN.09,2026
Test Performed	: SELECTED TEST(S) AS REQUESTED BY APPLICANT
Test Requested	: 1.FORMALDEHYDE EMISSION CONTENT (GB 18580:2001) 2.DETERMINATION OF INTERNAL BONDING (GB/T17657-1999 CLAUSE 4.8) 3.DETERMINATION OF BONDING QUALITY (GB/T17657-1999 CLAUSE 4.15) 4.PEEL OFF PERFORMANCE AFTER IMMERSION (GB/T17657-1999 CLAUSE 4.17) 5.IMPACT RESISTANCE PERFORMANCE (GB/T17657-1999 CLAUSE 4.44) 6.DETERMINATION OF RESISTANCE TO ABRASION-ROTATING ABRASIVE RUBBER WHEEL METHOD (ISO 7784-2:1997)
Test Result(s)	: FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)
Conclusion	: THE TEST DATA WERE PROVIDED TO CLIENT FOR THEIR OWN ANALYSIS.

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Signed for and on behalf of
SGS-CSTC Ltd.

Steven Xi
Lab Manager

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Test Conducted :

1.Formaldehyde emission content (GB 18580:2001)

2.Determination of Internal Bonding (GB/T17657-1999 clause 4.8)

3. Determination of Bonding Quality (GB/T17657-1999 clause 4.15)

4. Peel off performance after immersion (GB/T17657-1999 clause 4.17)

5. Impact resistance performance (GB/T17657-1999 clause 4.44)

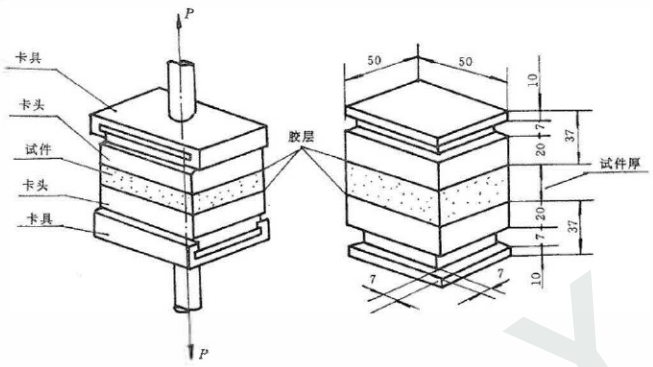
6. Determination of resistance to abrasion-Rotating abrasive rubber wheel method (ISO 7784-2:1997);

Sample A: Melamine paper; Sample B: Film paper

Test Property	Test Procedure	Rating/ Result
Formaldehyde emission content (GB 18580:2001)	With reference to GB/T 17657-1999 (The method of evaluating the properties of wood-based panels and surface decorated wood-based panel) clause 4.12.1~4.12.6(9-11)L, to determine the formaldehyde emission content from plywood, decorative veneered overlaid plywood and blockboard, analysis was performed by UV-Vis.	Sample A: Pass Formaldehyde emission: 0.6 mg/L Sample B: Pass Formaldehyde emission: 1.2 mg/L Details see result 3
Determination of Internal Bonding(GB/T 17657-1999 clause 4.8）	1) Specimen dimension requirement: length =50±1mm;width =50±1mm; 2) The test pieces were conditioned to constant mass in an atmosphere with a relative humidity of (65±5)% and a temperature of (20±2)°C; 3) Measure the width and length along the center line position of specimen. 4) Choose appropriate glue, stick the specimen and jig show as below figure. Then the test pieces were conditioned to constant mass in an atmosphere with a relative humidity of (65±5)% and a temperature of (20±2)°C; after the assembly become secured, and start test.	For sample A: Average of Internal Bonding: 0.45N/mm^2 For sample B: Average of Internal Bonding: 0.59N/mm^2

CUZI PLY

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Test Property	Test Procedure	Rating/ Result
	单位：mm  5) Place the testing assembly in the grips and apply a force until rupture occurs. The load shall be applied at a constant rate of crosshead-movement throughout the test. The rate of loading shall be adjusted so that the maximum load is reached within (60±30) s. Record the maximum load sustained by the test piece with a precision of 10N. 6) If damage was occurred at the glue layer, restart the test at the new specimen. The test result is calculated according to the following formula: $\sigma_{\perp} = \frac{P\ max}{l \times b}$ P max is the breaking load, in Newton; l, b is the length and width of the test piece, in millimeters.	
Determination of Bonding Quality (GB/T17657-1999 clause 4.15)	1) Specimen dimension requirement: length =100±1mm;width =50±1mm; 2) Sample type: type I 3) Treat the test pieces as following procedure. Immerse the test pieces into boiling water, and maintain for 4 hours. Then take them out of boiling water, set into the oven, maintain the oven temperature at (63±3) °C for 20 hours. Immerse the test pieces into boiling water, maintain for 4 hours. Take them out of boiling water, cool at the room temperature for 10 minutes. 4) The test pieces shall be set in the clamping jig in such a way that specimen's center is aligned with the axis of clamping jig. The distance between clamping position and slot groove shall not exceed 5 mm. 5) Apply the load with the constant rate of 10Mpa/min,until	See Result 1&2 for details

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Test Property	Test Procedure	Rating/ Result
	damage occurred on the test specimen. Record the maximum load with a precision of 10N. The test result is calculated according to the following formula: with a precision of 0.01MPa。 $X = \frac{P_{max}}{l \times b}$ X — the adhesive Strength，MPa; P_{max} — the maximum load ，N; l — the length of the shear area, mm; b — the width of the share area, mm;	
Peel off performance after immersion (GB/T17657-1999 clause 4.17)	1) Specimen dimension requirement: length =75±1mm;width =75±1mm; 2) Sample type: type Ⅰ 3) Treat the test pieces as following procedure. Immerse the test pieces into boiling water, and maintain for 4 hours. Then take them out of boiling water, set into the oven, maintain the oven temperature at (63±3)°C for 20 hours. Immerse the test pieces into boiling water, maintain for 4 hours. Take them out of boiling water, set into the oven, maintain the oven temperature at (63±3)°C for 3 hours. 4) After finishing the treatment, the test pieces shall be observed carefully. Check for any peel off & detachment between glued layers or between decoration layer and substrate. Measure the peel off length or detachment length of each glued layers with the steel ruler.. The length is the accumulated result of every part length of peel off & detachment on each layer. 5) The final result is the accumulated length of every part length of peel off & detachment on each layer, and express with a precision of mm.	For sample A: Length of peel off & detachment: 12mm For sample B: Length of peel off & detachment: 13mm
Impact resistance performance (GB/T17657-1999 clause 4.44)	1) Specimen dimension requirement: length =230±5mm;width =230±5mm; 2) For laminate of thickness less than 2.0mm, specimens shall be prepared by uniformly bonding a piece of the laminate under test to the MDF board using the specified adhesive evenly. 3) For laminate of thickness 2.0mm<=h<5.0mm, the test specimen shall be clamped firmly with the MDF board, for laminate of thickness >=5.0mm, the test specimen shall be tested without MDF board. 4) The specimens shall be preconditioned for 72 hours at (23±2)°C and (50±5)% relative humidity.	For sample A: Tiny crazing was found after test Average of imprint diameter: 5.6mm For sample B: Little tiny crazing was found after test Average of

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Test Property	Test Procedure	Rating/ Result
	5) Clamp the specimen in the clamping frame, and place the assembly on the solid base of the free-fall test apparatus. Cover the specimen with a piece of carbon paper with its coated surface. The specified steel ball fall on the specimen freely from the height of 1m.The free fall shall be conducted for total 5 times. The distance between points of impact shall be at least 50 mm. the whole impact area shall be in the square of 130 mm x 130 mm, centered aligned with the specimen. 6) Measure the diameter of impact imprint, and express with a precision of 0.1mm.	imprint diameter: 3.1mm
Determination of resistance to abrasion-Rotating abrasive rubber wheel method (ISO 7784-2:1997);	Prepare two wheels (500g/wheel) with preconditioned unused abrasive paper from the same batch previously approved by calibration. Lower the wheels , start the suction device and abrade the specimen. Examine the test specimen for abrasion after each 100 revolutions and renew the abrasive papers after every 200 revolutions. Continue the test in this way until the sub-layer becomes exposed and visible,record the number of revolutions. Repeat the test immediately using the two remaining test specimens. Resistance to abrasion should be the average value of the three results record above.	For sample A: 500 revolutions For sample B: 700 revolutions

Result1： Determination of Bonding Quality for sample A

Type A	type A 1	type A 2	type A 3	type A 4	type A 5
Pmax (N)	567.88	659.65	700.17	580.26	595.42
l(mm)	25.2	25.2	25.4	25.3	25.3
b(mm)	25.3	25.1	25.4	25.2	25.4
XA(N/mm^2)	0.42	0.41	0.47	0.44	0.46
Average	1.04				
Failure (%)	5	0	0	5	0
Mean value (%)	2				

Result2： Determination of Bonding Quality for sample B

Type A	type A 1	type A 2	type A 3	type A 4	type A 5
Pmax (N)	650.24	543.36	798.25	674.25	714.30
l(mm)	25.4	25.4	25.5	25.2	25.5
b(mm)	25.5	25.3	25.4	25.3	25.5
XA(N/mm^2)	1.00	0.85	1.23	1.06	1.10
Average	1.05				
Failure (%)	0	5	0	0	0
Mean value (%)	1				

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Result 3 Formaldehyde emission content

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA12-211959.001	Natural hardwood plywood with melamine paper
2	SHA12-211959.003	Natural hardwood plywood with film paper

Remarks :

(1) 1 mg/kg = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

GB 18580-2001-formaldehyde emission content

Test Method : With reference to GB/T 17657-1999 (The method of evaluating the properties of wood-based panels and surface decorated wood-based panel) clause 4.12.1~4.12.6(9-11)L, to determine the formaldehyde emission content from plywood, decorative veneered overlaid plywood and blockboard, analysis was performed by UV-Vis.

Test Item(s)	Limit	Unit	MDL	001	002
Formaldehyde	5	mg/L	0.2	0.6	1.2
Conclusion				**PASS**	**PASS**

Notes :

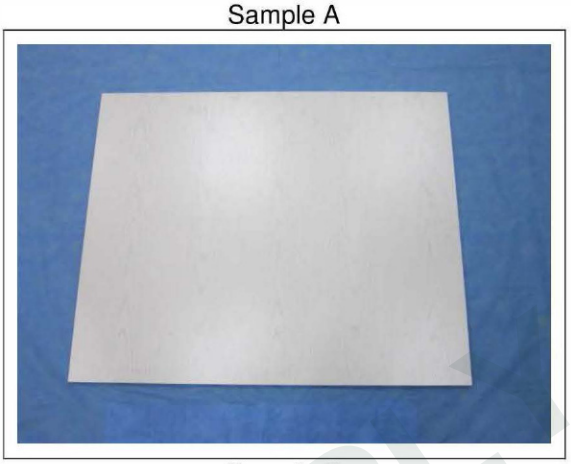
(1) #=Exceed the limit.

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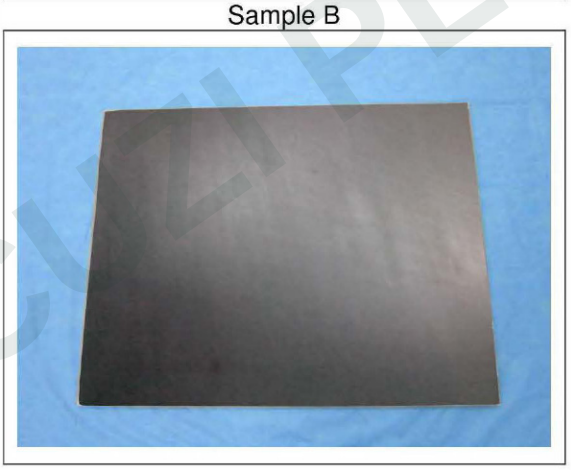
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Sample Photo:

Sample A



Sample B



End of Report

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