

TEST REPORT

No. : SHIN2406004275PL01_EN

Date : 2024-10-16

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CUSTOMER NAME: **EASY JOINT PTY LTD.**
ADDRESS: 31/2115 Castlereagh Road Penrith, NSW 2750

Sample Name : WPC DECKING
Product Specification : WPC5578
Manufacturer : Hangzhou Fantai Plastic Co., Ltd.
Buyer : EASY JOINT PTY LTD.

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Date of Receipt : 2024-10-05
Testing Period : 2024-10-05 - 2024-10-16
Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services (Shanghai) Co., Ltd..

Jeff Zhang

Jeff Zhang
Authorized signatory



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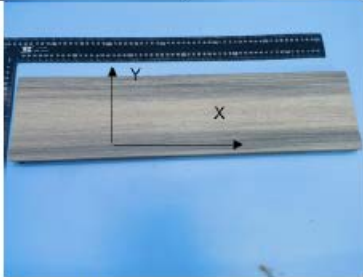
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Original Sample Photo(s):

	
<p>Water Absorption</p>	<p>Flexural Strength and Modulus of Elasticity</p>
	
<p>Coefficient of Friction / Axial Strength in Tension</p>	



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1. Test Item: Water Absorption

Test Method: With Reference to ASTM D1037-12(2020) Section 23 Method A

Test Condition:

Specimen: 152mm×141mm×23mm, 2pcs

Immersion time: 2 plus 22h

Lab Environmental Condition: (20±2)°C, (65±5)%RH

Test Result:

Test Item	Test Result		
	Individual value		Average value
Water Absorption (%)	0.17	0.09	0.13

2. Test Item: Flexural Strength and Modulus of Elasticity

Test Method: ASTM D6109-24 Method A

Test Condition:

Specimen: 518mm×141mm×23mm, 5pcs

Test Span: 368mm

Test Rate: 10.89mm/min

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result					
	Individual Value					Average Value
Flexural Strength (MPa)	32.0	27.3	28.2	29.6	29.0	29.2
Modulus of Elasticity (×10 ³ MPa)	4.01	3.27	3.33	3.20	3.37	3.44



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3. Test Item : Coefficient of Friction

Sample Description: See photo

Test Method: ASTM D2394-17(2022) Section 33-37

Test Condition:

Specimen: 625mm×142mm×23mm

Sliding weight: 11.8kg

Testing speed of Static Coefficient of Friction: 1.27mm/min

Testing speed of Sliding coefficient of friction: 51mm/min

Test Result:

Test Item		Test Result
Static Coefficient of Friction	X Direction	0.39
	Y Direction	0.40
Sliding coefficient of friction	X Direction	0.37
	Y Direction	0.41

4. Test Item : Axial Strength in Tension

Sample Description: See photo

Test Method: ASTM D4761-19 Section 9

Test Condition:

Specimen: 300mm×10mm×23mm, 5pcs

Testing speed: 5mm/min

Test direction: Parallel to L direction (see photo)

Test Result:

Test Item	Test Result
Axial Strength in Tension	4094 N

Note: All test specimens were cut from the sample.



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5. Test Item: Mean Coefficient of Linear Thermal Expansion

Sample Description: Wood plastic sample

Test Method: ASTM E831-19

Test Condition:

Rate of temperature: 5°C/min

Load: 50mN

Flow rate(N₂): 50ml/min

Test temperature: -30°C~50°C

Test mode: Compression

Test direction: Thickness

Test Result:

Test Item	Test Result	
Mean Coefficient of Linear Thermal Expansion	Thickness	126.3μm/(m·°C)

Original data:

Thickness

Specimen	1 (TMA curve see Fig.1)	2 (TMA curve see Fig.2)	3 (TMA curve see Fig.3)
Specimen length, mm	23.8265	23.9555	23.7465
Coefficient of Linear Thermal Expansion, μm/(m·°C)	-30°C ~50°C 119.8	134.6	124.4

Note: Test specimens were cut from the sample.



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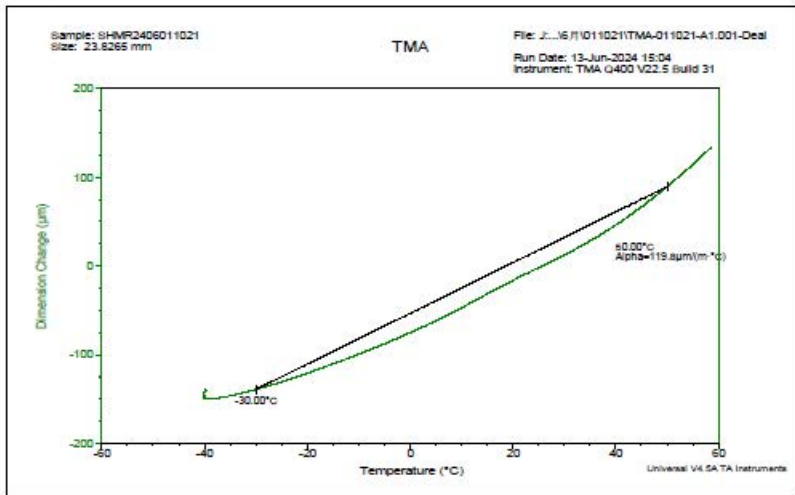
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Fig 1



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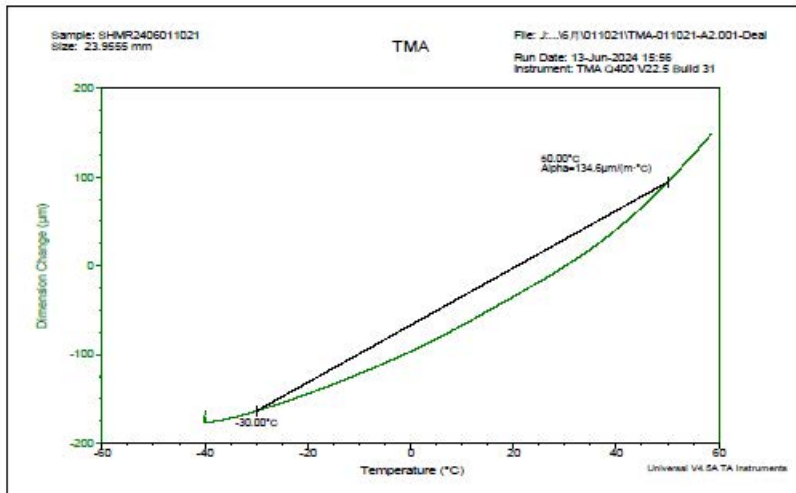
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Fig 2



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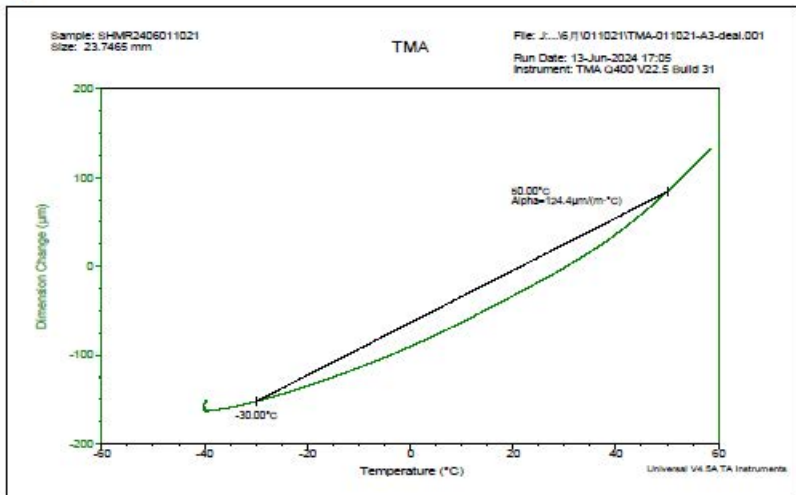
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Fig 3



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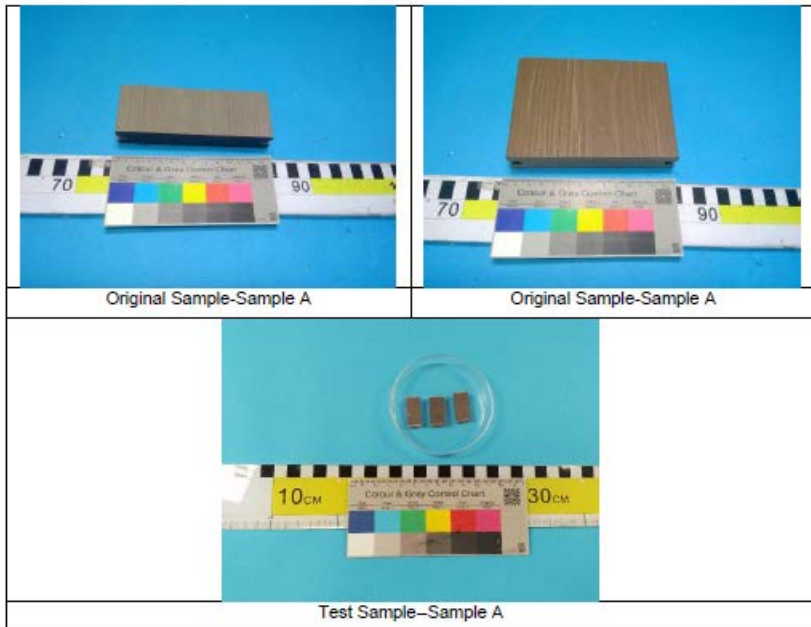
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Test Photo:



Original Sample-Sample A

Original Sample-Sample A

Test Sample-Sample A

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Thermo Mechanical analysis(TMA)	TMA Q400	P-600	2023-08-14	2024-08-13



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6. Test Item: US EPA, 40 CFR Part 770, Direct Final Rule, July 11, 2017- Formaldehyde Emission Standards for Composite Wood Products to comply with Labelling requirement of Toxic Substances Control Act (TSCA) Title VI, with further revision-Final Regulation issued on August 21st, 2019 - Formaldehyde Emission

Sample Description: Multicolor board

Test Method: With reference to ASTM D6007-14, analysis was performed by UV-Vis

Test Result:

Test Item(s)	Limit	Unit(s)	MDL	001
Formaldehyde Background	-	ppm	0.01	ND
Formaldehyde Emission	-	ppm	0.01	ND
Formaldehyde Emission (Corrected)	0.05	ppm	0.01	ND

Remarks:

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



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Notes:

(1) On July 11, 2017, the US EPA published a Direct Final Rule (DFR) in the Federal Register to allow compliant composite wood products and finished goods that were manufactured before December 12, 2017 to be labeled as Toxic Substances Control Act (TSCA) Title VI Compliant. According to the DFR, compliant panels and finished goods could be voluntarily labeled as compliant as soon as compliance can be achieved.

(2) On August 21, 2019, the EPA published a revision to the Act addressing certain technicalities and to further align its requirements with the CARB ATCM Phase II Program.

(3) ppm = parts of formaldehyde per million parts air.

(4) Formaldehyde Emission (Corrected) is Formaldehyde concentration corrected to 25°C and 50% Relative Humidity.

Reference Limit:

Maximum permissible limit according to 40 CFR Part 770.10:

Table 1: Formaldehyde Emission Standards(ppm) for Hardwood Plywood(HWPW), Particleboard(PB), and Medium Density Fiberboard(MDF)				
HWPW-V/C	HWPW-CC	PB	MDF	Thin MDF
0.05	0.05	0.09	0.11	0.13
HWPW-V/C = Veneer Core; HWPW-CC = Composite Core.				

Sample Conditioning / Parameters			
Average Temperature (°C)	24.0	Average Relative Humidity (%)	50.0
Range of Temperature (°C)	21.0- 27.0	Range of Relative Humidity (%)	45.0 – 55.0
Sampling Time (hour)	168	Formaldehyde background (ppm)	< 0.1



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Sample Details and Apparatus			
Chamber Dimensions (m)	1.578 x 0.8 x 0.8 or 1.56 x 0.8 x 0.8 (Nominal)		
Chamber Volume (m ³)	1.0	Chamber Load Ratio (m ² /m ³)	0.6399 (Particleboard, Hardwood Plywood Panels) / 0.3937 (MDF) / 1.4259 (Hardwood Plywood Wall Paneling) / 0.1968 (Particleboard Door Core)
Chamber Q/A Ratio (±2%)	1.172 (Particleboard, Hardwood Plywood Panels) / 1.905 (MDF) / 0.526 (Hardwood Plywood Wall Paneling) / 3.811 (Particleboard Door Core)		
Sample Size	32.3 cm x 33 cm (Particleboard, Hardwood Plywood Panels) / 25.6 cm x 25.6 cm (MDF) / 35 cm x 68 cm (Hardwood Plywood Wall Paneling) / 18.1 cm x 18.1 cm (Particleboard Door Core)		
Number of Samples	3	Number of Exposed Surfaces	6
Sampling Parameters of Emission Test			
Average Temperature (°C)	25.0	Average Relative Humidity (%)	50.0
Range of Temperature (°C)	24.0- 26.0	Range of Relative Humidity (%)	46.0 – 54.0
Air-sampling Time (min)	30	Sampling Time in Chamber (min)	240
Air-sampling Rate (L/min)	1.0	Formaldehyde background (ppm)	< 0.01



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7. Test Item: ASTM F963-23, Clause 4.3.5.2 – Soluble Heavy Metal in Substrate Materials

Sample Description: Multicolor board

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES

Test Result:

Test Item(s)	Limit	Unit(s)	MDL	001
Soluble Mercury(Hg)	60	mg/kg	5	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND
Soluble Lead(Pb)	90	mg/kg	5	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND
Soluble Selenium(Se)	500	mg/kg	10	ND

Remarks:

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

Notes:

(1) Results shown are of the adjusted analytical results.

For Formaldehyde Emission: The reported result is for reference only.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Test Photo:



Appendix information:

In the territory of the People's Republic of China, the test report without CMA logo expresses the test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc...and just for client internal reference.

***** End of report*****



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