Test Report

No.: SHARS25015147101 **Date:** Jul 17, 2025

Client Name: PoliLam Co.Ltd.

Client Address: 4845 Homestead Rd., Suite 516, Houston, Texas 77028

Sample Name:	PoliLam Phenolic Core Compact
Material:	Paper ,resin
Colour:	white
Composition:	Paper ,resin
Thickness:	12.7mm
Density:	1400Kg/m3

The above sample(s) and information were provided by the client.

SGS Job No.:	SHRT25000055S01
Sample Receiving Date:	Jun 19, 2025
Testing Period:	Jun 19, 2025 ~ Jul 16, 2025
Test Requested:	Select test(s) as requested by the client.
Test Method(s):	Please refer to next page(s).
Test Result(s):	Please refer to next page(s).

Test Requirement	Conclusion
Final Regulation Order – Airborne Toxic Control Measure to Reduce Formaldehyde emissions from Composite Wood Product (CARB ATCM), title 17, California Code of Regulation, section 93120.2 (a) and Table 1 - Formaldehyde Emission	See Results

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Lilac Wei
Approved Signatory

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA25-0151471-0001.C001	Beige solid board

Remarks:

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

Final Regulation Order – Airborne Toxic Control Measure to Reduce Formaldehyde emissions from Composite Wood Product (CARB ATCM), title 17, California Code of Regulation, section 93120.2 (a) and Table 1 - Formaldehyde Emission

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

Test Item(s)	Limit	Unit(s)	MDL	A1
Sample Conditioning / Parameters				
Average Temperature	-	°C	-	23.0
Average Relative Humidity	-	%	-	50.0
Sampling Time	-	h	-	168
Range of Temperature	-	°C	-	21-27
Range of Relative Humidity	-	%	-	45-55
Formaldehyde Background	-	ppm	-	<0.10
Sample Details and Apparatus				
Chamber Dimensions(Nominal)	-	m	-	1.578x0.8x0.8
Chamber Volume	-	m^3	-	1.0
Chamber Load Ratio	-	m^2/m^3	-	0.64
Chamber Q/A Ratio(±2%)	-	-	-	1.172
Sample Size	-	cm	-	32.3x33
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	-	24-26
Range of Relative Humidity	-	%	-	46-54
Air-samplingTime	-	min	-	30
Sampling Time in Chamber	-	min	-	240
Air-sampling Rate	-	L/min	-	1.0
Formaldehyde Emission Results				
Background	-	ppm	0.01	ND
Formaldehyde Emission	-	ppm	0.01	ND
Formaldehyde Emission (Corrected)	0.11	ppm	0.01	ND

Notes:

(1) The scope of CARB ATCM is applicable for composite wood, but not for other wood products.
(2) Formaldehyde emission test is one of the conformity criteria under CARB ATCM. Full conformity of a

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composite wood product happens provided that this composite wood fulfill all the requirement as stated in CARB ATCM title 17 section 93120 to 93120.12.
(3) ppm = parts of formaldehyde per million parts air.
(4) Formaldehyde Emission (Corrected) is Formaldehyde concentration corrected to 25℃ and 50% Relative Humidity.
Reference Limit:
Maximum Permissible Limit according to Section 93120.2, Title 17, California Code of Regulation:

Table 1: Phase 1 and Phase 2 Formaldehyde Emission Standards for Hardwood Plywood(HWPW), Particleboard(PB), and Medium Density Fiberboard(MDF)

Effective Date	Phase 1(P1) and Phase 2(P2) Emission Standards(ppm)				
	HWPW-VC	HWPW-CC	PB	MDF	Thin MDF
1-1-2009	P1:0.08	----------	P1:0.18	P1:0.21	P1:0.21
7-1-2009	--------	P1:0.08	----------	----------	----------
1-1-2010	P2:0.05	----------	----------	----------	----------
1-1-2011	--------	----------	P2:0.09	P2:0.11	----------
1-1-2012	----------	----------	----------	----------	P2:0.13
7-1-2012	---------	P2:0.05	----------	----------	----------
HWPW-VC = Veneer Core; HWPW-CC = Composite Core.					

Sample Conditioning / Parameters			
Average Temperature (℃)	24.0	Average Relative Humidity (%)	50.0
Range of Temperature (℃)	21.0- 27.0	Range of Relative Humidity (%)	45.0 – 55.0
Sampling Time (hour)	168	Formaldehyde background (ppm)	< 0.1
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 (℃)	25.0	Average Relative Humidity (%)	50.0
Range of Temperature (℃)	24.0- 26.0	Range of Relative Humidity (%)	46.0 – 54.0
Air-sampling Time (min)	30	Sampling Time in Chamber (min)	240

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Air-sampling Rate (L/min)	1.0	Formaldehyde background (ppm)	< 0.01

Remark:
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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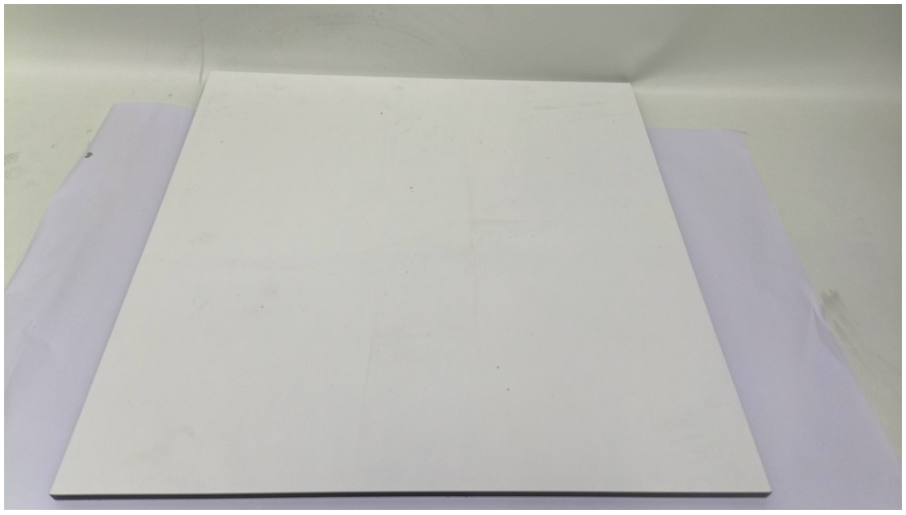
Sample Photo:



SHA25-0151471-0001.C001

SGS authenticate the photo on original report only

*** End of Report ***

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