

Test Report

No.: SHAHL24001178401

Date: Jan 30, 2024

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Client Name: Hebei Nide Home Furnishings Co., Ltd

Client Address: North of Wang Weitun Village, Machang Town, Qing County, Cangzhou City, Hebei Province

Sample Description: PB

Client Ref. Information: 3mm thick to 25mm thick

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

SGS No.: TJHL2401000427FT

Sample Receiving Date: Jan 17, 2024

Testing Period: Jan 17, 2024 ~ Jan 30, 2024

Test Requested: Select test(s) as requested by the client.

Testing Performed: Follow selected test(s) as requested by client.

	Test Requirement	Conclusion
1	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	See Results

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

Kiki He

Kiki He
Approved Signatory

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA24-0011784-0001.C001	White/natural wood board

Remarks:

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

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

Test Method: With reference to ASTM D6007- 2022, analysis was performed by UV-Vis.

Test Item(s)	Limit	Unit(s)	MDL	A1
Formaldehyde Emission	-	ppm	0.01	ND
Background	-	ppm	0.01	ND
Formaldehyde Emission (Corrected)	0.09	ppm	0.01	ND

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-VC	HWPW-CC	PB	MDF	Thin MDF
0.05	0.05	0.09	0.11	0.13
HWPW-VC = 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
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)		



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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

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:



SGS authenticate the photo on original report only
*** End of Report ***



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