

Test Report

No.: GZHL2112056721HI

Date: Jan 13, 2022

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GUANGXI GUOXU HAOLIN WOOD-BASED PANEL CO., LTD.
QINGHU YASHAN TOWN, BOBAI COUNTY, YULIN CITY, GUANGXI PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as

Product Type : MDF (without surface finishes or seals)
Thickness : 15mm-A
Tested Sample Information : Lot No.: 202111041232 Production Date: 2021-11-23
Visit Number : Y2Q3
Job Number : BJGZ20B1009
Sample Wrapping Method : Wrapped Collectively in Vapor Retarder

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : CAN21-249224
Sample Receiving Date : Dec 30, 2021
Test Performing Date : Dec 30, 2021 to Jan 12, 2022
Test Performed : Selected test(s) as requested by applicant
Test Result(s) : For further details, please refer to the following page(s)

Test Requested	Result
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) – Formaldehyde Emission Test for Composite Wood Products	PASS
US EPA 40 CFR Part 770.10, Toxic Substances Control Act (TSCA) Title VI – Formaldehyde Emission Test for Composite Wood Products	PASS

Remark : 1) The scope of CARB ATCM / TSCA Title VI is/are applicable for composite wood, but not for other wood products.
2) Formaldehyde emission test is one of the conformity criteria under CARB ATCM / TSCA Title VI. Full conformity of a 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 / US EPA 40 CFR Part 770.10.



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Guangzhou Branch Testing Center Harbinlines

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Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Joe



Joe Lu
Authorized Signatory



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Test Results :

Test Part Description :

SGS Sample ID	Description
CAN21-249224.001	Brown MDF

Remarks :

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

Formaldehyde Emission

Test Method : With reference to ASTM D6007-14 and Standard Face and Back Configuration testing therein, analysis was performed by UV-Vis.

Test Item(s)	Unit	MDL	001
Sample Conditioning / Parameters			
Average Temperature	°C	-	23.4
Average Relative Humidity	%	-	50.4
Range of Temperature	°C	-	21.0-27.0
Range of Relative Humidity	%	-	45.0-55.0
Sampling Time	hr(s)	-	168
Formaldehyde background	ppm	-	<0.10
Sample Details and Apparatus			
Chamber Dimensions (Nominal)	m	-	1.6x0.8x0.8
Chamber Volume	m ³	-	1.0
Chamber Load Ratio	m ² /m ³	-	0.39
Chamber Q/A Ratio (±2%)	-	-	1.905
Sample Size (as received)	cm×cm	-	25.6x25.6
Number of Samples	-	-	3
Number of Exposed Surfaces	-	-	6
Sampling Parameters of Emission Test			
Average Temperature	°C	-	24.9
Average Relative Humidity	%	-	50.3
Range of Temperature	°C	-	24.0-26.0
Range of Relative Humidity	%	-	46.0-54.0



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Air-sampling Time	min	-	30
Time of samples in chamber before air sample collection	min	-	240
Air-sampling Rate	L/min	-	1.0
Formaldehyde background	ppm	-	<0.01

Formaldehyde Emission Results

Background of Trial 1	ppm	0.01	ND
Background of Trial 2	ppm	0.01	ND
Background of Trial 3	ppm	0.01	ND
Formaldehyde Emission of Trial 1	ppm	0.01	0.06
Formaldehyde Emission of Trial 2	ppm	0.01	0.06
Formaldehyde Emission of Trial 3	ppm	0.01	0.06
Formaldehyde Emission of Trial 1 (Corrected)	ppm	0.01	0.06
Formaldehyde Emission of Trial 2 (Corrected)	ppm	0.01	0.06
Formaldehyde Emission of Trial 3 (Corrected)	ppm	0.01	0.06
Average Formaldehyde Emission (Corrected)	ppm	0.01	0.06

Note:

- (1) ppm = parts of formaldehyde per million parts air
- (2) Formaldehyde Emission (Corrected) is Formaldehyde concentration corrected to 25°C and 50% Relative Humidity.

Reference Limit:

Maximum Permissible Limit according to CARB ATCM, Title 17, California Code of Regulation, Section 93120.2 (a):

Formaldehyde Emission Standards for Hardwood Plywood(HWPW), Particleboard(PB), and Medium Density Fiberboard(MDF)	
Type	Limits
HWPW	0.05 ppm
PB	0.09 ppm
MDF	0.11 ppm
Thin MDF	0.13 ppm



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Maximum Permissible Limit according to TSCA Title VI, US EPA 40 CFR Part 770.10, Code of Federal Regulations:

Formaldehyde Emission Standards for Hardwood Plywood(HWPW), Particleboard(PB), and Medium Density Fiberboard(MDF)	
Type	Limits
HWPW	0.05 ppm
PB	0.09 ppm
MDF	0.11 ppm
Thin MDF	0.13 ppm

Sample photo:



Product Photo

End of Report



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