



中国认可
国际互认
检测
TESTING
CNAS L0167

Test Report

No.: GZHL2301001128HI

Date: Jan 30, 2023

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ZHANGZHOU ZHONGFU WOOD INDUSTRY CO., LTD.
NANJING HI-TECH INDUSTRY ZONE (JINGCHENG VILLAGE, JINGCHENG TOWN, NANJING COUNTY).

Product Type : MDF (without surface finishes or seals)
Thickness : 15mmLX
Visit Number : Y2Q4
Job Number : BJGZ20B1044
Tested Sample Information : Lot No.: A221121 Production Date: 2022.11.21
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. : CAN23-0000410
Sample Receiving Date : Jan 11, 2023
Test Performing Date : Jan 11, 2023 - Jan 30, 2023
Test Performed : Selected test(s) as requested by applicant
Test Result(s) : For further details, please refer to the following page(s)

	Test Requirement	Conclusion
1	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
2	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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Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Joe

Joe Lu
Authorized Signatory



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Guangzhou Branch Testing Center Headlines

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN23-0000410-0001.C001	Brown MDF

Remarks:

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

Formaldehyde Emission Test for Composite Wood Products

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)	Limit	Unit(s)	MDL	A1
Sample Conditioning / Parameters				
Average Temperature	-	°C	-	23.6
Average Relative Humidity	-	%	-	49.3
Range of Temperature	-	°C	-	21.0-27.0
Range of Relative Humidity	-	%	-	45.0-55.0
Sampling Time	-	h	-	168
Formaldehyde Background	-	ppm	-	<0.10
Sample Details and Apparatus				
Chamber Dimensions(Nominal)	-	m	-	1.6*0.8*0.8
Chamber Volume	-	m ³	-	1.0
Chamber Load Ratio	-	m ² /m ³	-	0.3937
Chamber Q/A Ratio(±2%)	-	-	-	1.905
Sample Size	-	cm	-	25.6*25.6
Number of Samples	-	-	-	3
Number of Exposed Surfaces	-	-	-	6
Sampling Parameters of Emission Test				
Average Temperature	-	°C	-	25.0
Average Relative Humidity	-	%	-	50.2
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 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	0.02
Formaldehyde Emission of Trial 2	-	ppm	0.01	0.02



SGS-CSI Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center

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Test Item(s)	Limit	Unit(s)	MDL	A1
Formaldehyde Emission of Trial 3	-	ppm	0.01	0.03
Formaldehyde Emission (Corrected) of Trial 1	-	ppm	0.01	0.02
Formaldehyde Emission (Corrected) of Trial 2	-	ppm	0.01	0.02
Formaldehyde Emission (Corrected) of Trial 3	-	ppm	0.01	0.03
Formaldehyde Emission (Corrected) of Average	0.11	ppm	0.01	0.02
Conclusion				Pass

Notes:

- (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

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

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.



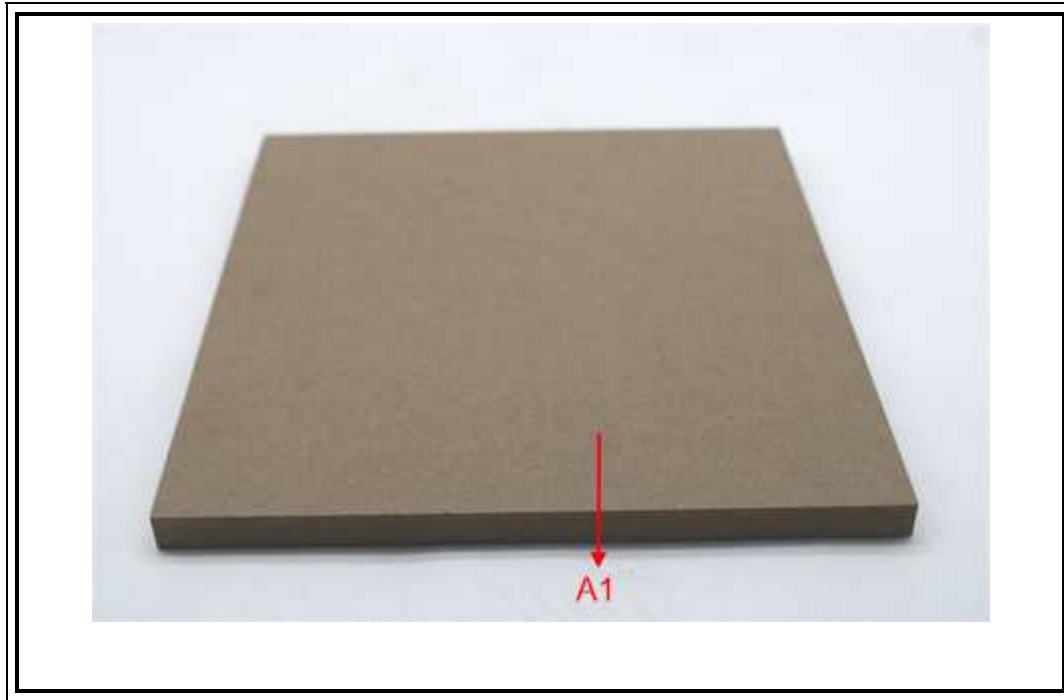
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Sample Photo:



End of Report



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