TEST REPORT

CheckCode:745294
Report No.:C202413032447E

Company Name: "Parfino plywood factory" OOO ("Parfino plywood factory" LLC)
Address: 52 Kirova str.Parfino village Parfa district, Novgorod region, Russian Federation

The following sample information is provided by the client and responsible for its authenticity

Sample Name:	HWPV-MM FK 3mm BB
Type of samples	HWPW-VC
Thickness:	3 mm
Resin Information:	Urea Formaldehyde CF-ES
Lot No.:	120924
Production Date:	2024-09-12
Sampling Date:	2024-09-12

Date of Receipt: Oct. 10, 2024 Test Period: Oct. 10, 2024 – Oct. 18, 2024

Test Request: As specified by client, to determine Formaldehyde (HCHO) Content in the submitted sample

Test Result: Please refer to following page(s).

Edited by Cuan Yiying Reviewed by Zhang Lina Approved by Zhang Xiaoqing

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GRG METROLOGY&TEST GROUP CO.,LTD. GRGTEST APPROVED(02)

Issue date:Oct.24,2024

The result(s) shown in this report refer(s) only to the sample(s) tested. This report is considered invalid without approved signature, special seal for inspection and testing and the seal on the perforation.This report cannot be reproduced except in full, without prior written approval of the company.Any disagreements of the test report should be fed back to us within 15 workdays upon receiving the report. Scan the QR code on the first page of the test report, or log on to the official website http://www.grgtmall.com, enter the report number and check code to check the authenticity of the report. If you have any questions, please contact the email grgtest@grgtest.com. GRGT assumes no responsibility for information leakage caused by improper management of the QR code and the check code by customers.

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Test result(s) summary

Test Request	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

Note: 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.

Sample description

Thickness	Description
3 mm	HWPV-MM FK 3mm BB

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Test Result(s):

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

Average Temperature and Relative Humidity 22.9℃, 47%RH,
Range of Temperature and Relative Humidity 21.0~27.0℃, 45~55%RH,
Sampling Time 168h,
Formaldehyde background: <0.10ppm

Sample Detailes and Apparatus :

Chamber Dimensions 1578×800×800mm
Chamber Volume 1m^3
Chamber Load Ratio 0.64 m^2/ m^3
Chamber Q/A Ratio 1.172
Sample Size (as received) 32.9cm × 32.3cm × 0.27 cm
Number of Samples: 3
Number of Exposed Surfaces: 6

Sampling Parameters of Emission Test:

Average Temperature and Relative Humidity 25.0℃,50%RH,
Range of Temperature and Relative Humidity 24.0~26.0℃, 46~54%RH,
Air-sampling Time: 30min.
Time of Samples in Chamber before Air Sample Collection: 240min.
Air-sampling Rate: 1.0 L/min
Formaldehyde background: <0.02ppm

Test Item 1	Background			Unit	MDL
	1	2	3		
Formaldehyde Emission	N.D.	N.D.	N.D.	ppm	0.01

Test Item 1	Sample			Unit	MDL
	Trial 1	Trial 2	Trial 3		
Formaldehyde Emission	0.033	0.038	0.034	ppm	0.01

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Test Item 1	Sample				Unit	MDL	HWPW Maximum Permissible Limit	Conclusion
	Trial 1	Trial 2	Trial 3	Average				
Formaldehyde Emission (Corrected)	0.032	0.037	0.034	0.03	ppm	0.01	0.05	PASS

Remark: 1) ppm = parts of formaldehyde per million parts air
2) MDL = Method Detection Limit
3) “N.D.” = Not Detected (Below Method Detection Limit)
4) Formaldehyde Emission (Corrected) is formaldehyde concentration corrected to 25 ℃, 50%RH.
5) Reference Information: Maximum Permissible Limit according to Section 93120.2,Titl17, California Code of Regulation, CARB-ATCM:

Table 1: Phase 2 Formaldehyde Emission Standards for Hardwood Plywood(HWPW), Particleboard(PB), and Medium Density Fiberboard(MDF)			
HWPW	PB	MDF	Thin MDF
0.05 ppm	0.09 ppm	0.11 ppm	0.13 ppm

Maximum Permissible Limit according to TSCA Title VI, 40 CFR Part 770, Code of Federal Regulation:

Table 2: Formaldehyde Emission Standards for Hardwood Plywood(HWPW), Particleboard(PB), Medium Density Fiberboard(MDF), and Laminated Product				
HWPW	PB	MDF	Thin MDF	Laminated Product
0.05 ppm	0.09 ppm	0.11 ppm	0.13 ppm	0.05 ppm

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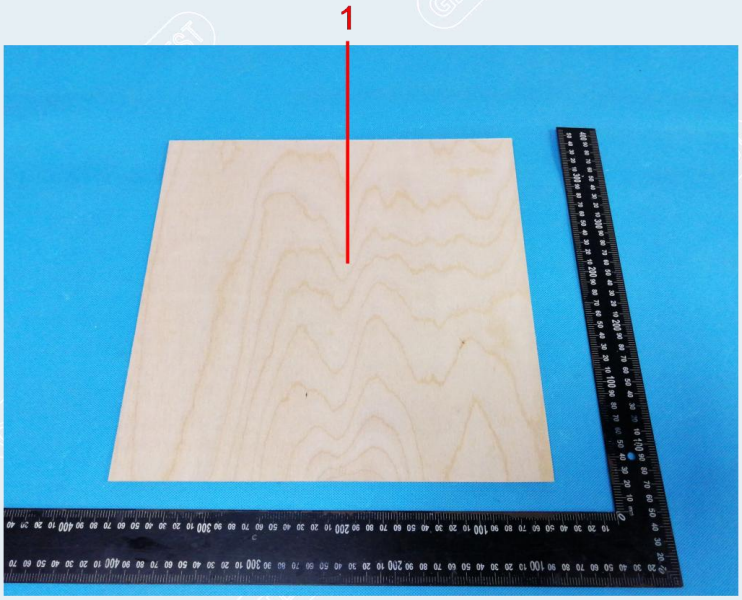
Photo of Sample


----------End of Report----------

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