ASTM D6007-22 人造板小气候箱甲醛释放量检测

ASTM D6007-22 Standard Test Method for Determining Formaldehyde Concentrations in Air from Wood Products Using a Small-Scale Chamber

EPA TSCA Title Ⅵ & CARB P2 & CANFER

检 测 报 告

委 托 单 位 **Applicant**	鄢陵县金源木业有限公司 Yanling Jinyuan Woods Co., Ltd.
工 厂 编 号 **Mill No.**	ICTT-19025
样 品 类 型 **Sample Type**	单板芯的硬木胶合板 HWPW-VC
检 测 类 别 **Test Purpose**	定期检测 Quarterly Test
签 发 日 期 **Report Date**	2025-09-25

Shanghai Hongjun Science & Technology Co., Ltd is California Air Resources Board (CARB) & EPA approved as a subcontractor testing laboratory for the ICTT Corporation—CARB & EPA TPC-43

注 意 事 项

I n t e n t i o n s

1. 报告无检测单位“检测专用章”无效； The testing report is invalid when there is no Chinese words stamp which means“Specfic Stamp for Testing Report”.
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5. 本检测报告仅对来样负责；This testing report is responsible for the received samples only.
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   If there is any objection to the testing report, it should be presented to the testing institution within 5 days from the date of receiving the test report. The objection shall not be accepted after the expiry of the prescribed time limit.

公司注册地址 Registration address：上海市闵行区光华路 598 号 3 幢 1 楼 103-9

检测地址 Test address：重庆市江北区港安二路 8 号 3 号楼 6F

邮政编码 Post code：400025 电 话 Tel：023-63525678

传 真 Fax：023-63530958 E-mail：lab@icttglobal.org

样品信息 Sample Information					
生产单位 MFG Name	鄢陵县金源木业有限公司 Yanling Jinyuan Woods Co., Ltd.				
委托单位 Applicant	鄢陵县金源木业有限公司 Yanling Jinyuan Woods Co., Ltd.				
样品类型 Sample Type	HWPW-VC			树种类型 Wood Species	杨木 Poplar
	表面处理 Surface Coated：是 Yes☐ 否 No☑			单面 Single☐ 双面 Double-side☐	
样品规格及数量 Sample Quantity& Size	250*150mm 3Sets (3 PCS / Set)			样品厚度 Sample Thickness	17mm-11plies
生产日期 Production Date	2025-09-01	采样日期 Sample Date	2025-09-05	收样日期 Sample Received	2025-09-18
产品/批次号 Product/Batch ID	20250901001	样品描述 Sample Description	Sampled by SHST representative in accordance with ATCM regulation and sampling procedure		
样品包装状态 Sample Packaging Status： 密封完好 Packaging well while received.					
检测项目 Test Item	甲醛释放量（小气候箱法）Formaldehyde Emission（Small-Scale Chamber）				
检测依据 Test Standard	ASTM D6007-22：Standard Test Method for Determining Formaldehyde Concentrations in Air from Wood Products Using a Small-Scale Chamber				
判定依据 Conformity Standard	美国联邦法案 40 CFR Part 770(EPA TSCA Title VI)第§770.10、 加州空气资源局 93120 法规以及加拿大复合木制品甲醛释放量 SOR/2021-148				
检测日期 Test Date	2025-09-18 至 2025-09-24			报告日期 Report Date	2025-09-25
检测结论 Conclusion	送检的样品经检测 The samples had been tested： 甲醛释放量（小气候箱法）参照 ASTM D6007-22 标准进行检测，检测结果参见第 4 页。 Formaldehyde emission per ASTM D6007-22 (small chamber), see test result on page four. 详见检测信息 See test data . 检测单位（检测专用章） Testing unit (special seal for testing)				
备注 Note	1.样品信息由委托单位提供。 Applicant to provide the information of the sample. 2.根据委托单位要求，样品平衡时间为 6 天。 According to the request of the applicant, the sample conditioning costs 6 days.				

检测信息 Test Data

样品在检测前封边放置在温度为 24℃±3℃(75°F±5°F)和相对湿度为 50±5%的条件下调节，样品调节的甲醛背景浓度低于 0.01ppm.

The samples were covered the edges with aluminum tape, stored at conditions of 50±5% RH, 24℃±3℃(75°F±5°F). The formaldehyde background concentration in the air where the specimens were conditioned was documented at <0.01ppm.

然后将样品放入甲醛背景浓度低于 0.02ppm 的气候箱(体积为 0.2 m³)中，气候箱维持温度 25℃±1℃(77°F±2°F)，湿度 50±4%，进气的甲醛浓度低于 0.02ppm，至少 3 次完全空气置换后，以 1L/min±0.05L/min 的速度采箱体内空气 30 分钟，以分光光度计 7230G 进行分析。甲醛释放量值修正到相对湿度 50%，温度 77℉的标准值。

Then put the sample into the chamber (volume = 0.2 m³) , and which was maintained at 25℃±1℃(77°F±2°F) and 50±4%. The formaldehyde concentration of make-up air and the chamber were both measured at <0.02 ppm. After allow time for no less than three full air changes, air samples were drawn at a rate of 1L/min±0.05L/min for 30 minutes. Emission values were determined with spectrophotometer analysis 7230G. The Formaldehyde Emissions are corrected to an emission level at standard conditions (50% RH and 77 ºF).

样品编号 Sample No.	箱编号 Small Chamber Test No.	背靠背检测 Tested back-to-back	箱 Q/A 值 Chamber Q/A Ratio	厚度 Thickness	暴露面积 Total Exposed Area	平均进气流量 Flow	时间 Time	温度 Temp.	相对湿度 RH	甲醛释放量 Formaldehyde Emission
			$(m^3/h)/m^2$	(mm)	(m^2)	(L/min)	(h)	(℃)	(%)	(ppm)
252314-1	HX116	No	1.173	17	0.225	4.40	2.83	25.2	47.1	0.028
252314-2	HX117	No	1.173	17	0.225	4.40	2.83	25.2	48.2	0.028
252314-3	HX118	No	1.174	17	0.225	4.40	2.83	25.1	46.7	0.026
平均值 Average										**0.027**

ASTM D6007-22 检测结果满足美国联邦法案 40 CFR Part 770(EPA TSCA Title VI)第§770.10、加州空气资源局 93120 法规表格一第二阶段以及加拿大复合木制品甲醛释放量 SOR/2021-148 第 6(1)条例中要求的单板芯的硬木胶合板 0.05ppm 的限值要求。

The ASTM D6007-22 test result meets the §770.10 of 40 CFR Part 770 (EPA TSCA Title VI), CARB 93120, Table1, Phase 2, and SOR/2021-148 section 6 (1) limitation of 0.05ppm for HWPW-VC.

附注 Note：

1. ASTM D6007-22 甲醛释放量检测在本实验室方法检出限(MDL)为 0.004ppm，低于 0.004ppm 视为未检出。The method detection limit in our laboratory for this method is 0.004ppm, thus if the test result is less than 0.004ppm, it is regarded as not detect out HCHO.
2. 客户申请的测试判定规则为：IEC Guide 115:2007 第二程序–准确度法，不需要考虑不确定度。The applicable decision rules of this test are: IEC Guide 115:2007 Procedure 2 - Accuracy method, do not subject to measurement uncertainty.

批准 Approved: 龙巧 审核 Audit: 杨映彩 编制 Prepared: 白雪

日期 Date: 2025-09-25 日期 Date: 2025-09-25 日期 Date: 2025-09-25

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