



ASTM D6007-14 人造板小气候箱甲醛释放量检测

ASTM D6007-14 Standard Test Method for Determining Formaldehyde
Concentrations in Air from Wood Products Using a Small-Scale Chamber

CARB P2-TSCA Title VI

检 测 报 告

委 托 单 位
Applicant

陆河泰润人造板有限公司
Luhe Tairun Wooden-based Panels Co., Ltd.

工 厂 编 号
Mill No.

ICTT-20015

样 品 类 型
Sample Type

中密度纤维板
MDF

检 测 类 别
Test Purpose

定期检测
Quarterly Test

签 发 日 期
Report Date

2023-02-09

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



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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

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Shanghai Hongjun Science & Technology Co., Ltd.



报告编号 Report No.: HJ-QAT-23074

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样品信息 Sample Information

生产单位 MFG Name	陆河泰润人造板有限公司 Luhe Tairun Wooden-based Panels Co., Ltd.				
委托单位 Applicant	陆河泰润人造板有限公司 Luhe Tairun Wooden-based Panels Co., Ltd.				
样品类型 Sample Type	MDF	树种类型 Wood Species	/		
	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	100*200mm 3Sets (3 PCS / Set)		样品厚度 Sample Thickness	15mm	
生产日期 Production Date	2022-12-27	采样日期 Sample Date	2022-12-30	收样日期 Sample Received	2023-01-08
产品/批次号 Product/Batch ID	ABC20221228	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 D6007-14: 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 及加州空气资源局 93120 法规				
检测日期 Test Date	2023-01-11 至 2023-01-13		报告日期 Report Date	2023-02-09	
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 D6007-14 标准进行检测，检测结果参见第 4 页。 Formaldehyde emission per ASTM D6007-14(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 3 至 5 天。 According to the request of the applicant, the sample conditioning costs 3~5 days.				





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检测信息 Test Data

样品在检测前封边放置在温度为 $24\pm3^{\circ}\text{C}$ ($75\pm5^{\circ}\text{F}$) 和相对湿度为 $50\pm5\%$ 的箱体内部调节, 样品调节的箱体甲醛背景浓度低于 0.10ppm .

The samples were covered the edges with aluminum tape and stored in a room maintained at $50\pm5\%$ RH, $24\pm3^{\circ}\text{C}$ ($75\pm5^{\circ}\text{F}$) prior to testing. The formaldehyde background concentration in the air where the specimens were conditioned was documented at $<0.10\text{ppm}$.

然后将样品放入甲醛背景浓度低于 0.02ppm 的气候箱 (体积为 0.2m^3) 中, 气候箱维持 $25\pm1^{\circ}\text{C}$ 湿度 $50\pm4\%$, 进气的甲醛浓度低于 0.02ppm 至少 3 次完全空气置换后, 以每分钟 1 升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°F 的标准值。

Then put the sample into the chamber (volume = 0.2m^3), and which was maintained at $25\pm1^{\circ}\text{C}$ and $50\pm4\%$. The formaldehyde concentration of make-up air and the chamber were both measured at $<0.02\text{ppm}$. After allow time for no less than three full air changes, air samples were drawn at a rate of one (1) L/minute 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°F).

样品编号 Sample No.	箱编号 Small Chamber Test No.	检测日期 Test Date	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)	($^{\circ}\text{C}$)	(%)	(ppm)
23074-1	HX101	2023-01-11	1.905	15	0.120	3.81	3.17	24.5	50.3	0.076
23074-2	HX114	2023-01-11	1.904	15	0.120	3.81	3.17	24.4	50.2	0.056
23074-3	HX101	2023-01-13	1.910	15	0.120	3.82	3.17	25.3	46.7	0.069
平均值 Average										0.067

ASTM D6007-14 检测结果满足美国联邦法案 40 CFR Part 770(EPA TSCA Title VI)第§770.10 及加州空气资源局 93120 法规表格一中要求的中密度纤维板第二阶段 0.11ppm 的限值要求。

The ASTM D6007-14 test results meet the §770.10 of 40 CFR Part 770 (EPA TSCA Title VI) & CARB 93120, Table1, Phase 2 limitation of 0.11ppm for MDF.

附注 Note:

- ASTM D6007-14 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.
- 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: 白彦

日期 Date: 2023-02-09 日期 Date: 2023-02-09 日期 Date: 2023-02-09

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