



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	吴桥县荣泰木业股份有限公司 Wuqiao Rongtai Wood Industry Incorporated Company
工 厂 编 号 Mill No.	ICTT-17115
样 品 类 型 Sample Type	刨花板 PB
检 测 类 别 Test Purpose	定期检测 Quarterly Test
签 发 日 期 Report Date	2023-04-03

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

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报告编号 Report No.: HJ-QAT-23315

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样品信息 Sample Information

生产单位 MFG Name	吴桥县荣泰木业股份有限公司 Wuqiao Rongtai Wood Industry Incorporated Company				
委托单位 Applicant	吴桥县荣泰木业股份有限公司 Wuqiao Rongtai Wood Industry Incorporated Company				
样品类型 Sample Type	PB		树种类型 Wood Species		/
	表面处理 Surface Coated: 是 Yes <input checked="" type="checkbox"/> 否 No <input type="checkbox"/> 单面 Single <input type="checkbox"/> 双面 Double-side <input checked="" type="checkbox"/>				
样品规格及数量 Sample Quantity & Size	150*250mm 3Sets (3 PCS / Set)		样品厚度 Sample Thickness	18mm	
生产日期 Production Date	2023-02-27	采样日期 Sample Date	2023-03-05	收样日期 Sample Received	2023-03-09
产品/批次号 Product/Batch ID	20230227	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	2023-03-30		报告日期 Report Date	2023-04-03	
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 . <div>检测单位 (检测专用章) Testing unit (special seal for testing)</div>				
备注 Note	1.样品信息由委托单位提供。 Applicant to provide the information of the sample. 2.根据标准要求, 样品平衡时间为 7 天。 According to the test standard, the sample conditioning costs 7 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  $0.10\text{ppm}$ .

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  $0.02\text{ppm}$  的气候箱 (体积为  $0.2\text{m}^3$ ) 中, 气候箱维持  $25\pm1^{\circ}\text{C}$  湿度  $50\pm4\%$ , 进气的甲醛浓度低于  $0.02\text{ppm}$  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  $77^{\circ}\text{F}$  的标准值。

Then put the sample into the chamber (volume =  $0.2\text{m}^3$ ), 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  $77^{\circ}\text{F}$ ).

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
			( $\text{m}^3/\text{h}$ ) / $\text{m}^2$	(mm)	( $\text{m}^2$ )	(L/min)	(h)	( $^{\circ}\text{C}$ )	(%)	(ppm)
23315-1	HX101	2023-03-30	1.169	18	0.225	4.39	2.83	25.4	53.1	0.028
23315-2	HX114	2023-03-30	1.175	18	0.225	4.41	2.83	24.9	51.0	0.018
23315-3	HX115	2023-03-30	1.175	18	0.225	4.41	2.83	24.8	51.5	0.015
平均值 Average										0.020

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刨花板第二阶段  $0.09\text{ppm}$  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  $0.09\text{ppm}$  for PB.

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  $0.004\text{ppm}$ , 低于  $0.004\text{ppm}$  视为未检出。The method detection limit in our laboratory for this method is  $0.004\text{ppm}$ , Thus if the test result is less than  $0.004\text{ppm}$ , 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: 杨映影 编制 Prepared: 黄金松

日期 Date: 2023-04-03 日期 Date: 2023-04-03 日期 Date: 2023-04-03

-----报告结束 Report End-----