



**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

南宁昌茂木业有限公司  
Nanning Changmao Wood Industry Co., Ltd.

工厂编号  
Mill No.

ICTT-17059

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

2021-01-13

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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Shanghai Hongjun Science & Technology Co., Ltd



报告编号 Report No.: HJ-QAT-202146

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样品信息 Sample Information

生产单位 MFG Name	南宁昌茂木业有限公司 Nanning Changmao Wood Industry Co., Ltd.				
委托单位 Applicant	南宁昌茂木业有限公司 Nanning Changmao Wood Industry Co., Ltd.				
样品类型 Sample Type	MDF	树种类型 Wood Material	/		
	表面处理 Surface Coated: 是 Yes <input type="checkbox"/> 否 No <input checked="" type="checkbox"/>		单面 Single <input type="checkbox"/> 双面 Double-side <input type="checkbox"/>		
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	2020-12-07	采样日期 Sample Date	2020-12-24	收样日期 Sample Received	2020-12-28
产品/批次号 Product/Batch ID	202012071	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	2021-01-06 至 2021-01-07		报告日期 Report Date	2021-01-13	
检测结论 Conclusion	<p>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 .</p> <p style="text-align: right;">检测单位 (检测专用章) Testing unit (special seal for testing)</p>				
备注 Note	<p>样品信息由委托单位提供。 Applicant to provide the information of the sample.</p>				





**检测信息 Test Data**

样品在检测前封边后放置在温度为  $24\pm 3^{\circ}\text{C}$  ( $75\pm 5^{\circ}\text{F}$ ) 和相对湿度为  $50\pm 5\%$  的箱体内存放，样品调节的箱体甲醛背景浓度低于  $0.10\text{ppm}$ 。  
The samples remained sealed and stored in a room maintained at  $50\pm 5\%$  RH,  $24\pm 3^{\circ}\text{C}$  ( $75\pm 5^{\circ}\text{F}$ ) 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  $25\pm 1^{\circ}\text{C}$  湿度  $50\pm 4\%$ ，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  $25\pm 1^{\circ}\text{C}$  and  $50\pm 4\%$ . 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)
202146-1	HX1#	2021-01-06	1.900	15	0.120	3.80	3.17	25.4	48.1	0.061
202146-2	HX114	2021-01-07	1.896	15	0.120	3.79	3.17	24.9	47.5	0.036
202146-3	HX115	2021-01-07	1.904	15	0.120	3.81	3.17	25.1	47.5	0.036

**平均值 Average**

**0.044**

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  $0.11\text{ppm}$  的限值要求。

The ASTM D6007-14 test result meets the §770.10 of 40 CFR Part 770 (EPA TSCA Title VI) & CARB 93120, Table1, Phase 2 limitation of  $0.11\text{ppm}$  for MDF.

**附注 Note:**

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:   刘北   审核 Audit:   龙巧   编制 Prepared:   黄金松  

日期 Date:   2021-01-13   日期 Date:   2021-01-13   日期 Date:   2021-01-13  

-----报告结束 Report End-----