



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	2021-06-25

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



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报告编号 Report No.: HJ-QAT-212825

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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	12mm
生产日期 Production Date	2021-05-07	采样日期 Sample Date	2021-05-19	收样日期 Sample Received
产品/批次号 Product/Batch ID	202105074	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	2021-06-07		报告日期 Report Date	2021-06-25
检测结论 Conclusion	<p>送检的样品经检测 The samples had been tested:</p> <p>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.</p> <p>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	样品信息由委托单位提供。 Applicant to provide the information of the sample.			





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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 0.10ppm 。
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 0.02ppm 的气候箱 (体积为 0.2m^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 0.02ppm 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 $25\pm 1^{\circ}\text{C}$ 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°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)
212825-1	HX115	2021-06-07	1.904	12	0.120	3.81	3.17	25.1	53.5	0.045
212825-2	HX116	2021-06-07	1.901	12	0.120	3.80	3.17	24.8	51.7	0.055
212825-3	HX117	2021-06-07	1.904	12	0.120	3.81	3.17	25.3	49.6	0.074

平均值 Average

0.058

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 result meets 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:

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: 2021-06-25 日期 Date: 2021-06-25 日期 Date: 2021-06-25

-----报告结束 Report End-----