

technical parameter

力澳无机涂装板技术参数

序号	检测项目	技术指标	检测结果	结果判定	检测标准
1	铅笔硬度	$\geq H$	2H	合格	GB/T 37005-2018 第 5.4.1 节
2	表面耐冷热温差	无褪色、变色、鼓泡和其他缺陷	无褪色、变色、鼓泡和其他缺陷	合格	GB/T 37005-2018 第 6.3.9、5.4.1 节&GB/T 4893.7-2013
3	表面耐磨	磨耗值 $\leq 0.15g/100r$, 且漆膜未磨透	磨耗值=0g/100r, 漆膜未磨透	合格	GB/T 37005-2018 第 5.4.1 节
4	漆膜附着力	3 级及以上	0 级	合格	GB/T 37005-2018 第 5.4.1 节
5	表面耐液性 (10 种试剂) 24h	无褪色、变色、鼓泡和其他缺陷	无可见变化	合格	GB/T 37005-2018 第 5.4.1 节
6	耐黄变	$\Delta E^*_{ab} \leq 3.0$	$\Delta E^*_{ab} = 0.8$	合格	GB/T 37005-2018 表 4
7	耐干热 70°	无褪色、变色、鼓泡和其他缺陷	无变化, 等级为 1 级	合格	GB/T 37005-2018 第 5.4.1 节
8	耐湿热 70°	无褪色、变色、鼓泡和其他缺陷	无变化, 等级为 1 级	合格	GB/T 37005-2018 第 5.4.1 节
9	金黄色葡萄球菌, 大肠杆菌	抗菌率 $\geq 90\%$	大肠杆菌抗菌率=98.67% 金黄色葡萄球菌抗菌率=99.18%	合格	GB/T 21866-2008
10	甲醛释放量检测	甲醛释放量 $\leq 0.124mg/m^3$	未检出	合格	GB18580-2017
11	总挥发性有机物 (TVOC) 含量	TVOC $\leq 0.50mg/m^2.h$	未检出	合格	参考 HJ 571-2010
12	可溶性重金属 4 项	可溶性铅 (Pb) 含量 $\leq 90mg/kg$ 可溶性镉 (Cd) 含量 $\leq 75mg/kg$ 可溶性铬 (Cr) 含量 $\leq 60mg/kg$ 可溶性汞 (Hg) 含量 $\leq 60mg/kg$	可溶性铅 (Pb) 含量 $\leq 45mg/kg$ 可溶性镉 (Cd)、可溶性铬 (Cr) 及可溶性汞 (Hg) 未检出	合格	参照 GB 18584-2001
测试结果					

备注：表面耐液性测试试剂包括：10%乙酸,丙酮,10%氨水,10%柠檬酸,咖啡,消毒剂,96%乙醇,

石蜡 油，10% 碳酸钠，15% 氯化钠



检测报告

辅号：S ZN 2307001607PL44_CN
日期：2023-08-14
页码：1 of 4

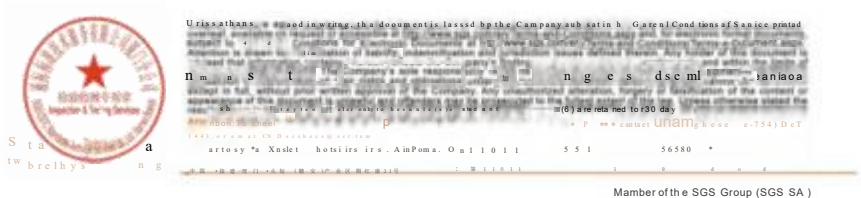
客户名称：安徽力澳新材料科技有限公司
客户地址：安徽省滁州市定远县池河镇工业园区
样品名称：力澳无机涂装板

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SGS 参考号：XM IN2307000910PL44_CN
收样日期：2023-07-28
测试周期：2023-07-28 ~ 2023-08-14
测试结果：请见下页 (除另有特别说明外，此报告结果仅对测试样品负责)

通标准技术服务有限公司深圳分公司
授权签名

胡璇 授权签字人



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检测报告

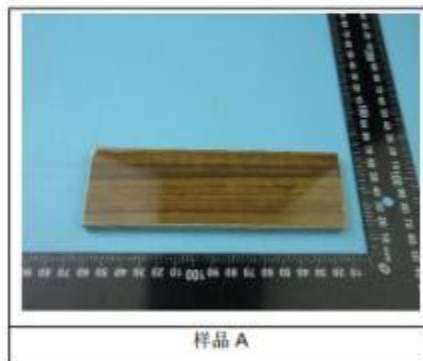
编号 : SZIN2307001607PL44_CN
日期 : 2023-08-14
页码 : 2 of 4

结果总结:

序号	测试项目	测试方法	结果	结论
1	漆膜硬度	GB/T 37005-2018 第 6.3.6 节、 第 5.4.1 节 & GB/T 6739-2006	见结果	符合

备注: 符合: 达到要求
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检测报告

编号 : SZIN2307001607PL44_CN
日期 : 2023-08-14
页码 : 3 of 4

测试项目: 漆膜硬度

样品描述: 见照片

测试方法: GB/T 37005-2018 第 6.3.6 节、第 5.4.1 节 & GB/T 6739-2006

测试条件:

测试铅笔: Mitsubishi® Uni

负载: (750±10)g

测试结果:

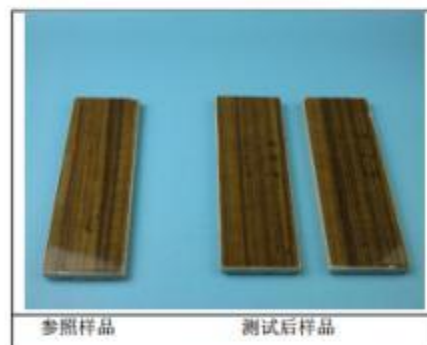
样品	硬度	GB/T 37005-2018 第 5.4.1 节要求	结论
A	2H	≥H	符合

备注: 在 Mitsubishi® Uni 测试铅笔中, 9H 最硬, 6B 最软

6B-5B-4B-3B-2B-B-HB-F-H-2H-3H-4H-5H-6H-7H-8H-9H

较软 ← ————— → 较硬

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编号 : SZIN2307001607PL44_CN

日期：2023-08-14

页码 : 4 of 4

设备信息:

设备	型号	设备编号	校准日期	下次校准日期
铅笔硬度计	BGD 505	XMML-POL-059	2023-04-21	2024-04-20

附录信息:

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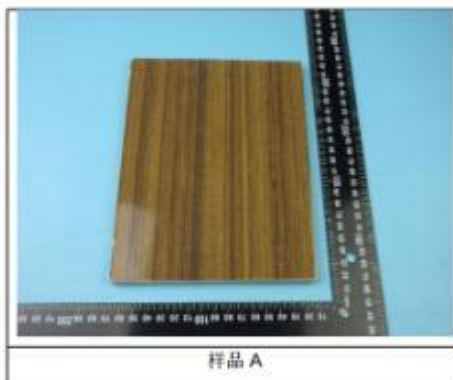
页码 : 2 of 4

结果总结:

序号	测试项目	测试方法	结果	结论
1	表面耐冷热温差	GB/T 37005-2018 第 6.3.9 节、第 5.4.1 节 & GB/T 4893.7-2013	见结果	符合

备注: 符合: 达到要求
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原样照片:



样品 A



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Shanghai Branch (Shanghai Laboratory)

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检测报告

编号 : SZIN2307001607PL45_CN

日期 : 2023-08-14

页码 : 3 of 4

测试项目: 表面耐冷热温差

样品描述: 见照片

测试方法: GB/T 37005-2018 第 6.3.9 节、第 5.4.1 节 & GB/T 4893.7-2013

测试条件:

步骤	初始条件	终止条件	时间
1	(40±2) °C, (95±3) %RH	(40±2) °C, (95±3) %RH	1 h
2	(-20±2) °C	(-20±2) °C	1 h
高低温转换时间不超过 2 min, 共执行三个测试周期			

测试结果:

样品	外观	GB/T 37005-2018 第 5.4.1 节要求	结论
A	无褪色、变色、鼓泡和其他缺陷	无褪色、变色、鼓泡和其他缺陷	符合

测试照片:



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检测报告

编号 : SZIN2307001607PL45_CN

日期：2023-08-14

页码 : 4 of 4



测试后样品

设备信息:

设备	型号	设备编号	校准日期	下次校准日期
恒温恒湿箱	KTHD-415TBS	XMML-POL-010	2023-04-21	2024-04-20
恒温恒湿箱	KTHD-415TBS	XMML-POL-055	2022-09-20	2023-09-19

附录信息:

- 2.检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的。仅供内部参考。

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检测报告

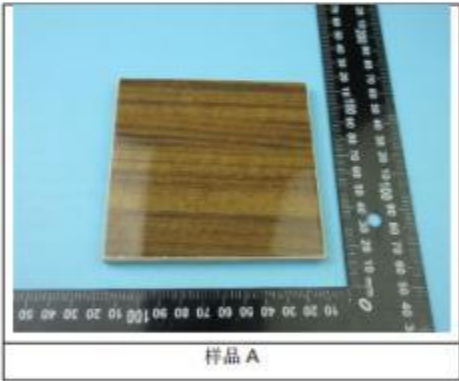
编号 : SZIN2307001607PL46_CN
日期 : 2023-08-14
页码 : 2 of 4

结果总结:

序号	测试项目	测试方法	结果	结论
1	表面耐磨	GB/T 37005-2018 第 6.3.4 节、 第 5.4.1 节 & GB/T 4893.8-2013	见结果	符合

备注: 符合: 达到要求
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原样照片:



样品 A



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编号 : SZIN2307001607PL46_CN

日期 : 2023-08-14

页码 : 3 of 4

测试项目: 表面耐磨

样品描述: 见照片

测试方法: GB/T 37005-2018 第 6.3.4 节、第 5.4.1 节 & GB/T 4893.8-2013

测试条件:

负重: (1000±1) g /轮 (总重 2000 g)

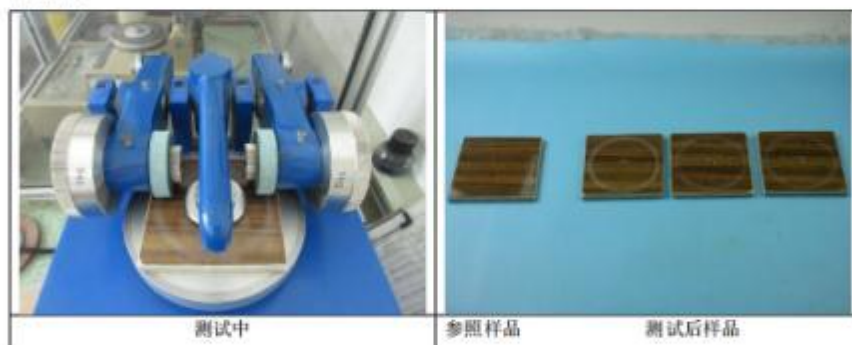
转速: (60±2) r/min

转数: 100

测试结果:

样品	外观	磨损值 (g/100r)	GB/T 37005-2018 第 5.4.1 节要求	结论
G	漆膜未磨透	0	≤0.15 g/100r, 且漆膜未磨透	符合

测试照片:



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编号 : SZIN2307001607PL46_CN

日期：2023-08-14

頁碼 : 4 of 4

设备信息:

设备	型号	设备编号	校准日期	下次校准日期
磨耗仪	JM-VI	XMML-POL-074	2023-04-21	2024-04-20

附录信息:

1.此检测方法在通标标准技术服务有限公司厦门分公司执行。

2.检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。

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页码 : 1 of 4

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客户地址 : 安徽省滁州市定远县池河镇工业园区

样品名称 : 力澳无机涂装板

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测试周期 : 2023-07-28 ~ 2023-08-14

测试结果 : 请见下页(除另有特别说明外,此报告结果仅对测试样品负责)

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授权签名

胡骥

授权签字人



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检测报告

编号 : SZIN2307001607PL47_CN

日期 : 2023-08-14

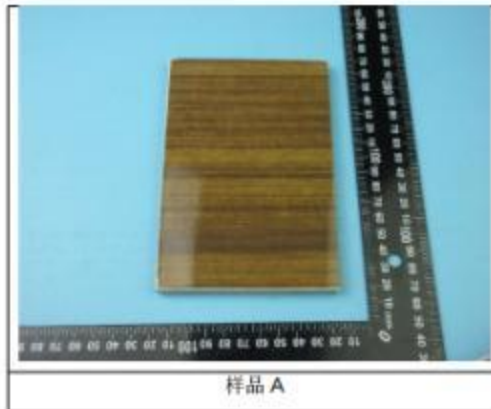
页码 : 2 of 4

结果总结:

序号	测试项目	测试方法	结果	结论
1	漆膜附着力	GB/T 37005-2018 第 6.3.5 节、 第 5.4.1 & GB/T 4893.4-2013	见结果	符合

备注: 符合: 达到要求
不符合: 未达到要求
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原样照片:



样品 A



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检测报告

编号：SZIN2307001607PL47_CN

日期：2023-08-14

页码：4 of 4

设备信息：

设备	型号	设备编号	校准日期	下次校准日期
漆膜附着力划格板	BGD 503	XMML-POL-035	2023-04-21	2024-04-20

附录信息：

- 1.此检测方法在通标标准技术服务有限公司厦门分公司执行。
- 2.检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的，仅供内部参考。

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检测报告

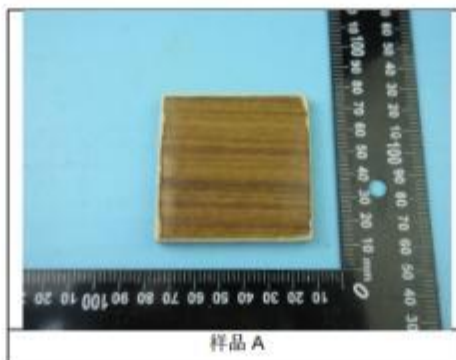
编号 : SZIN2307001607PL48_CN
日期 : 2023-08-14
页码 : 2 of 7

结果总结:

序号	测试项目	测试方法	结果	结论
1	表面耐液性	GB/T 37005-2018 第 6.3.8 节、第 5.4.1 节 & GB/T 4893.1-2021	无可见变化	符合

备注: 符合: 达到要求
不符合: 未达到要求
/: 不下判定

原样照片:



样品 A



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检测报告

编号 : SZIN2307001607PL48_CN
日期 : 2023-08-14
页码 : 3 of 7

测试项目: 表面耐液性

样品描述: 见照片

测试方法: GB/T 37005-2018 第 6.3.8 节、第 5.4.1 节 & GB/T 4893.1-2021

测试条件:

测试温度: (23±2)°C

接触介质: 滤纸

测试试剂: 10 %(m/m)乙酸、丙酮、10 %(m/m)氨水、10 %(m/m)柠檬酸、咖啡、消毒剂 (家用漂白类型产品)、96 %(v/v)乙醇、石蜡油、10 %(m/m)碳酸钠、15 %(m/m)氯化钠

测试时间: 24 h

测试结果:

样品	试剂	外观	GB/T 37005-2018 第 5.4.1 节要求	结论
A	10 %(m/m)乙酸	无可见变化	无褪色、变色、鼓泡和其他缺陷	符合
	丙酮	无可见变化		符合
	10 %(m/m)氨水	无可见变化		符合
	10 %(m/m)柠檬酸	无可见变化		符合
	咖啡	无可见变化		符合
	消毒剂 (家用漂白类型产品)	无可见变化		符合
	96 %(v/v)乙醇	无可见变化		符合
	石蜡油	无可见变化		符合
	10 %(m/m)碳酸钠	无可见变化		符合
	15 %(m/m)氯化钠	无可见变化		符合

备注: 消毒剂使用白猫漂白水。



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Korea Bureau Testing Services Laboratory

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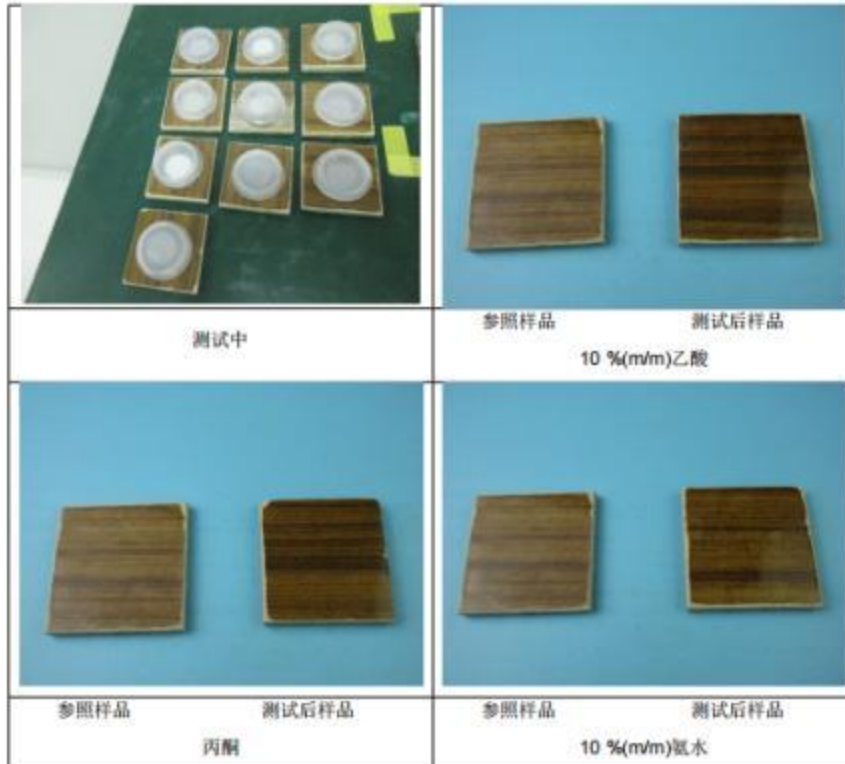
检测报告

编号 : SZIN2307001607PL48_CN

日期 : 2023-08-14

页码 : 4 of 7

测试照片:



505-CPC, Columbia Pipeline Co., Ltd.
Kampong Cham, Cambodia

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检测报告

编号 : SZIN2307001607PL48_CN
日期 : 2023-08-14
页码 : 5 of 7

	
参照样品 测试后样品 10 %(m/m)柠檬酸	参照样品 测试后样品 咖啡
	
参照样品 测试后样品 消毒剂 (家用漂白类型产品)	参照样品 测试后样品 96 %(w/v)乙醇



SGS-CHINA Inspection & Testing Service
Kemer Road, Songjiang District, Shanghai, P.R. China

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检测报告

编号 : SZIN2307001607PL48_CN

日期 : 2023-08-14

页码 : 6 of 7

	
参照样品 测试后样品 石蜡油	参照样品 测试后样品 10 %(m/m)碳酸钠
	
参照样品 测试后样品 15 %(m/m)氯化钠	



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日期：2023-08-10

頁碼 : 2 of 4

结果总结:

序号	测试项目	测试方法	结果	结论
1	耐黄变	GB/T 37005-2018 第 6.3.11 节 & GB/T 23983-2009 & ASTM D2244-23	$\Delta E^*_{50}=0.8$	合格

备注: 合格: 达到要求
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检测报告

编号 : SZIN2307001607PL49_CN

日期 : 2023-08-10

页码 : 3 of 4

测试项目: 耐黄变

样品描述: 片材

测试方法: GB/T 37005-2018 第 6.3.11 节 & GB/T 23983-2009 & ASTM D2244-23

测试条件:

测试循环:

灯管类型: UVA-340

连续光照, (60±3)°C BPT, 0.68W/(m²·nm)@340nm

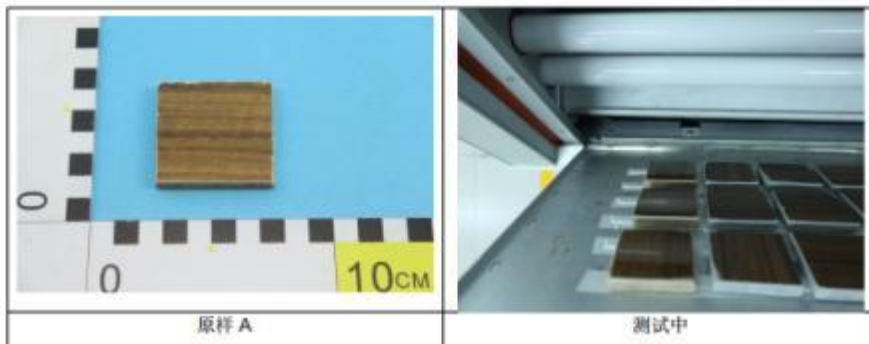
暴露时间: 168h

测试结果:

测试项目	ΔE^*_{ab}	GB/T 37005-2018 表 4 要求	结论
耐黄变	0.8	$\Delta E^*_{ab} \leq 3.0$	合格

备注: ΔE^*_{ab} 用积分球分光光度计测量, 使用 D65 标准光源, 10°观察者, 结果为包含镜面反射, 25mm 孔径。

测试照片:



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中国“广东·深圳前海深港现代服务业合作区自贸试验区”（前海）工业厂区/邮编 518049, 深圳, 中国, 电话: 86-755-8107 1443, 传真: 86-755-8107 1444, 邮箱: cs.check@cn.sgs.com

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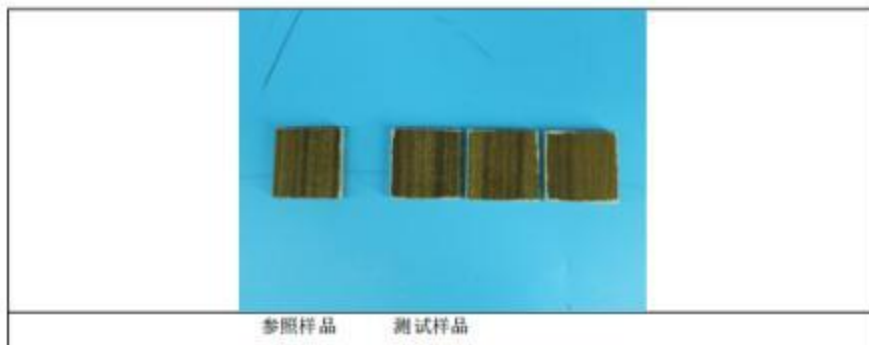


检测报告

编号 : SZIN2307001607PL49_CN

日期 : 2023-08-10

页码 : 4 of 4



设备信息:

设备	型号	设备编号	校准日期	下次校准日期
荧光紫外老化机	QUV-Se	GZMR-AG-E193	2023-03-16	2024-03-15
积分球光度计	CI7800	GZMR-AG-E307	2023-02-21	2024-02-20

附录信息:

1. 此检测方法是在通标标准技术服务有限公司广州分公司执行。
2. 检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的，仅供内部参考。

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检测报告

编号 : SZIN2307001607PL50_CN

日期：2023-08-14

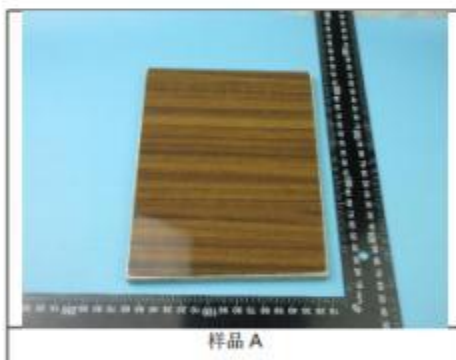
Page : 2 of 4

结果总结:

序号	测试项目	测试方法	结果	结论
1	耐干热	GB/T 37005-2018 第 6.3.13 节、 第 5.4.1 节 & GB/T 4893.3-2020	详见结果	符合

备注: 符合: 达到要求
不符合: 未达到要求
左: 不下判定

原样照片:

[illegible]

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检测报告

编号 : SZIN2307001607PL50_CN

日期 : 2023-08-14

页码 : 3 of 4

测试项目: 耐干热

样品描述: 见照片

测试方法: GB/T 37005-2018 第 6.3.13 节、第 5.4.1 节 & GB/T 4893.3-2020

测试条件:

热源块温度: 70 °C

接触时间: 20 min

测试结果:

样品	外观	等级	GB/T 37005-2018 第 5.4.1 节要求	结论
A	无变化	1	无褪色、变色、鼓泡和其他缺陷	符合

备注: 根据 GB/T 4893.3-2020, 1 级最好, 5 级最差

测试照片:



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检测报告

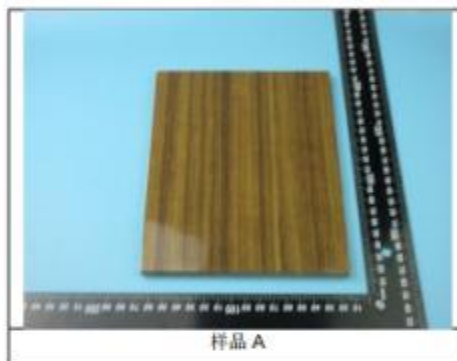
编号 : SZIN2307001607PL51_CN
日期 : 2023-08-14
页码 : 2 of 4

结果总结:

序号	测试项目	测试方法	结果	结论
1	耐湿热	GB/T 37005-2018 第 6.3.14 节、第 5.4.1 节 & GB/T 4893.2-2020	详见结果	符合

备注: 符合: 达到要求
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原样照片:



样品 A



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检测报告

编号 : SZIN2307001607PL51_CN

日期 : 2023-08-14

页码 : 3 of 4

测试项目: 耐湿热

样品描述: 见照片

测试方法: GB/T 37005-2018 第 6.3.14 节、第 5.4.1 节 & GB/T 4893.2-2020

测试条件:

热源块温度: 70 °C

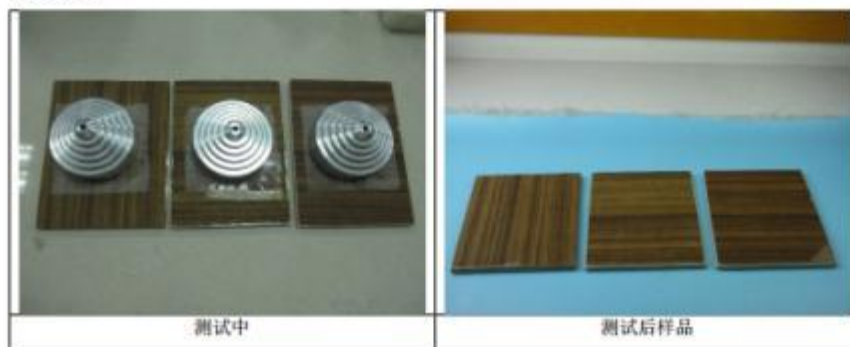
接触时间: 20 min

测试结果:

样品	外观	等级	GB/T 37005-2018 第 5.4.1 节要求	结论
A	无变化	1	无褪色、变色、鼓泡和其他缺陷	符合

备注: 根据 GB/T 4893.2-2020, 1 级最好, 5 级最差。

测试照片:



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检测报告



检测报告

编号: CANML2309319202

日期: 2023年08月30日 第2页,共3页

检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	CAN23-093192.001	带花纹棕色面的棕色板

备注:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

GB 18580-2017-甲醛释放量

检测方法: 参考GB 18580-2017, 采用UV-Vis进行分析。

检测项目	限值	单位	MDL	QOI
甲醛释放量	0.124	mg/m³	0.050	ND
评论				符合

备注:

1. mg/m³ = 毫克每立方米
 2. 限量标识E1≤0.124 mg/m³
- 除非另有说明, 参照ILAC-G8:09/2019, 使用简单接受 ($w=0$) 的二元判定规则进行符合性判定。
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Guangzhou Science City East Zone

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检测报告

编号: CANML2309319202

日期: 2023年08月30日 第3页,共3页

样品照片:



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检测报告

编号: CANML2309319204

日期: 2023年08月31日 第2页,共4页

检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	CAN23-093192.001	带花纹棕色面的棕色板

备注:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

HJ571-2010—总挥发性有机物(TVOC)含量

检测方法: 参考HJ571-2010。

在1m³的检测舱中进行检测,用Tenax-TA管采样,分析仪器为热脱附气相质谱仪(TDS-GC/MS)。

定量检测样品中挥发性有机物。

检测项目	CAS NO.	单位	MDL	001
检测条件				
舱体积		m³	-	1.0
检测温度		°C	-	23±0.5
检测湿度		RH%	-	45±3
换气率		1/h	-	1±0.05
放置比例		m²/m²	-	1±0.02
Tenax捕集速度		mL/min	-	200
Tenax采样时间		min	-	25
Tenax采样体积		L	-	5
VOCs				
苯	71-43-2	mg/(m³·h)	0.002	ND
甲苯	108-88-3	mg/(m³·h)	0.002	ND
乙苯	100-41-4	mg/(m³·h)	0.002	ND
间/对-二甲苯	108-38-3/106-42-3	mg/(m³·h)	0.002	ND
苯乙烯	100-42-5	mg/(m³·h)	0.002	ND
邻-二甲苯	95-47-6	mg/(m³·h)	0.002	ND
氯苯	108-90-7	mg/(m³·h)	0.002	ND
异丙基苯	98-82-8	mg/(m³·h)	0.002	ND
丙基苯	103-65-1	mg/(m³·h)	0.002	ND
3-乙基甲苯	620-14-4	mg/(m³·h)	0.002	ND



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检测报告

编号: CANML2309319204

日期: 2023年08月31日 第3页,共4页

检测项目	CAS NO.	单位	MDL	QOI
4-乙基甲苯	622-96-8	mg/(m ² ·h)	0.002	ND
1,3,5-三甲苯	108-67-8	mg/(m ² ·h)	0.002	ND
1,2,4-三甲苯	95-63-6	mg/(m ² ·h)	0.002	ND
1,2,3-三甲苯	526-73-8	mg/(m ² ·h)	0.002	ND

备注:

1. mg/(m²·h) = 毫克每平方米样品每小时

2. VOCs最终结果为3天结果数值

除非另有说明,参照ILAC-G8:09/2019,使用简单接受($w=0$)的二元判定规则进行符合性判定。

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检测报告

编号: CANML2309319204

日期: 2023年08月31日 第4页,共4页

样品照片:



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检测报告

编号: CANPC23007513606

日期: 2023 年 08 月 11 日

第 2 页, 共 3 页

检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	003	CAN23-0075136-0001.C003	"轻龙高光数码板"

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

GB 18584-2001-可溶性重金属

检测方法: 参考 GB 18584-2001 条款 5.2, 采用原子吸收光谱仪进行分析。

检测项目	限值	单位	MDL	003
可溶性铅(Pb)	90	mg/kg	5	45
可溶性镉(Cd)	75	mg/kg	5	ND
可溶性铬(Cr)	60	mg/kg	5	ND
可溶性汞(Hg)	60	mg/kg	5	ND
结论				
	符合			

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第 3 页, 共 3 页

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