

## 检测报告

编号: SHHL241207290201SD

日期: 2025-2-25

页码: 1 of 24

东莞市欧亚轩装饰建材有限公司  
广东省东莞市道滘镇亨龙路27号1号楼101室

样品名称	: 无硅人造石
制造商	: 东莞市欧亚轩装饰建材有限公司
供应商	: 东莞市欧亚轩装饰建材有限公司
*****	
样品来源	: 由客户寄送
样品接收日期	: 2024-12-09
测试周期	: 2024-12-09~2025-02-25

测试项目	结果
硅 (Si)	见结果
卤素	见结果
抗菌效果试验	见结果
抗真菌效果试验	见结果
耐高温	见结果
耐污染测试	见结果
耐化学试剂测试	见结果
破裂模量	见结果
抗压强度	见结果
弯曲强度	见结果
断裂能	见结果
点冲击	见结果
吸水率和密度	见结果
耐磨性	见结果
莫氏硬度	见结果
放射性核素	见结果
线性热膨胀系数	见结果
ASTM E84-2023d 建筑材料表面燃烧特性的标准测试方法	见结果

签署并代表  
SGS-CSTC 标准技术服务(上海)有限公司



张美玲  
授权签署人



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## 检测结果

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## 进行测试

## 样品描述

序列号 ID	样品编号	SGS样品 ID	描述
SN1	A1	SHA24-0282400-0001.C001	白色固体

## 备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出(< MDL)
- (4) “-” = 不受管制

## 硅(Si)

测试方法 参考 ASTM D 4004-06 ( 2017 ) , 通过 ICP-OES 进行分析

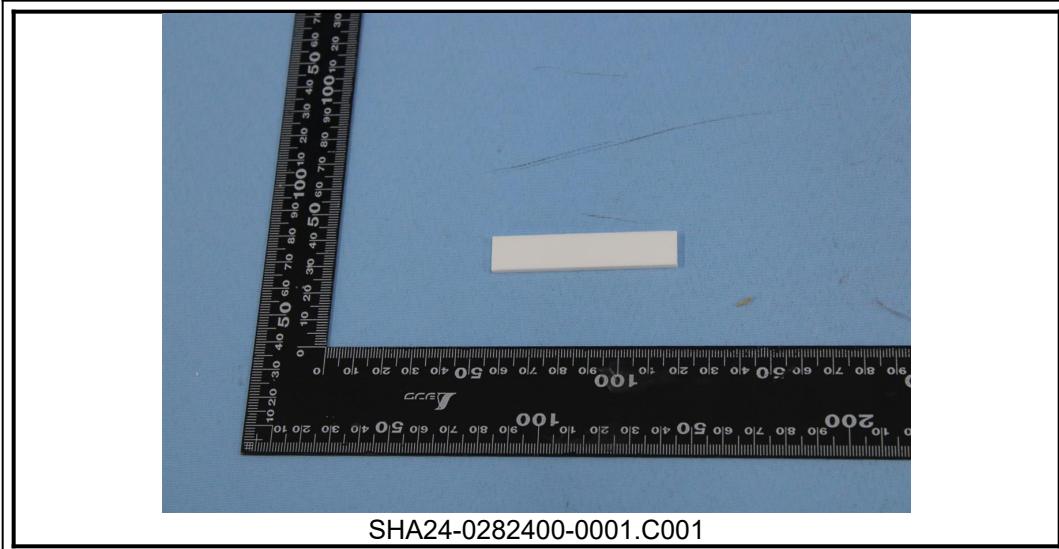
测试项目(s)	单位(s)	MDL	A1
硅(Si)	mg/kg	50	148

## 卤素

测试方法: 参考 EN 14582 : 2016 , 由 IC 进行分析

测试项目(s)	单位(s)	MDL	A1
氟(F)	mg/kg	20	ND
氯(Cl)	mg/kg	50	ND
溴(Br)	mg/kg	50	ND
碘(I)	mg/kg	50	ND

## 原样照片:



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## 样品描述:

样品编号	SGS样品 ID	描述
1	ASH24-0090033-0001	袋装样品
2	ASH24-0090033-0002	袋装样品

申请测试: 应申请人要求选择的试验 : 抗菌效果试验

测试方法: ASTM E 2180-24 测定聚合或疏水材料中加入抗菌剂活性的标准测试方法

**ASH24-0090033-0001**

测试菌种(s)	大肠埃希菌 ATCC 8739
菌液浓度(CFU/mL)	$2.1 \times 10^6$
对照样-0 h (CFU/cm <sup>2</sup> )*	$1.2 \times 10^5$
对照样-24 h (CFU/cm <sup>2</sup> )*	$1.2 \times 10^6$
样品-24 h(CFU/cm <sup>2</sup> )*	$7.4 \times 10^5$
减少率 (%)	38.3

## 备注:

对照样品是 SGS 实验室提供的不含抗菌活性的塑料薄膜。

\*表示为回收的生物体数量的几何平均值的反对数。

处理过的试样的灭菌 : 用 75% 的乙醇 ( 溶于水 ) 擦拭消毒。

申请测试: 申请人要求的选定测试 : 抗真菌效果试验

测试方法: ASTM G 21-15 ( 2021 ) e1 合成高分子材料抗真菌性的测试

**ASH24-0090033-0002**

测试菌种(s)	孢子悬夜浓度 (个 /mL)	样品表面观察到的生长级别 (28天)
*检测菌种	$1.0 \times 10^6$	0**

## 备注:

1.\*检测菌种: 巴西曲霉 ATCC 9642, 嗜松蓝状菌 ATCC 11797, 球毛壳霉 ATCC 6205, 绿色木霉ATCC 9645, 出芽短梗霉 ATCC 15233

巴西曲霉曾用名是黑曲霉

嗜松蓝状菌曾用名是嗜松青霉

绿色木霉曾用名是绿色胶霉

2.根据 ASTM G 21-15 ( 2021 ) e1 合成高分子材料抗真菌性的测定 , 样品表面观察到的霉菌生长情况评价如下:

0-不生长

1-痕迹生长 ( 小于 10% )

2-轻微生长 ( 10 ~30% )

3-中度生长 ( 30 ~ 60% )

4-严重生长 ( 60% -完全覆盖 )

3. 该结果由放大倍数为 ( 50X ) 的显微镜进行观察确认

4.测试面 : 光滑表面



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测试照片:



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测试项目: 耐高温

测试方法: 参考 ANSI NEMA LD 3-2005 第 3.6 节热油法

测试条件:

试样: 100mm×100mm×20.0mm, 3片

测试温度: 180°C

测试时间: 20min

冷却时间: 24h

实验室环境条件:(23±2)°C (50±5)%相对湿度

测试结果:

测试项目	测试结果
耐高温	a: 无影响

备注 :

- a. 无影响 - 颜色或表面光洁度无变化
- b. 轻微效果-仅在特定角度或方向可见的颜色或表面处理的变化
- c. 中等效果-从各个角度和方向可见的颜色或表面光泽的变化 , 但并未显著改变样本的原始状态
- d. 严重影响-颜色或表面光泽的变化明显且显著地改变了样本的原始状态



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测试项目: 耐污染测试

测试方法: 参考 IAPMO/ANSI Z124.6-2007 第 5.2 节

测试条件:

试样: 100mm×100mm×20.0mm, 10片

测试面: 正视图

实验室环境条件:(23±2)°C (50±5)%相对湿度

测试结果:

试剂	测试时间	测试结果	
		覆盖	不覆盖
耐污染 测试	16小时	黑色蜡笔	等级 1
		黑色液体鞋油	等级 1
		蓝墨水	等级 1
		龙胆紫	等级 2
		甜菜汁	等级 1
		葡萄汁	等级 1
		口红(对比色)	等级 1
		染发剂(对比色)	等级 2
		碘酒(1%酒精溶液)	等级 2
		湿茶袋	等级 1
总等级		26	

评级标准:

评级	说明
1	不染色
2	可用酒精或石脑油去除
3	可通过首次使用标准清洁粉去除
4	可通过两种标准清洁粉去除
5	上述清洁后残留污渍



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测试项目: 耐化学试剂测试

测试方法: 参考 IAPMO/ANSI Z124.6-2007 第 5.5 节

测试条件:

试样: 100mm×100mm×20.0mm, 15片

测试面: 正视图

实验室环境条件:(23±2)°C (50±5)%相对湿度

测试结果:

试剂	测试时间	测试结果	
		覆盖	不覆盖
耐化学试剂 测试	16小时	外观无变化	外观无变化
		外观无变化	外观无变化

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测试项目: 断裂模量

测试方法: 参考ASTM C99/C99M-24

测试条件:

试样: 200mm×100mm×60.0mm, 10片, 每种条件 5 个

干燥条件: 在60°C下干燥48h至恒重

湿润条件: 浸泡于22°C 的水中 48 h

跨度: 180mm

试验速度: 5000N/min

实验室环境条件:(23±2)°C (50±5)%相对湿度

测试结果:

测试项目		测试结果					
		单个测试值					平均值
断裂模量 (MPa)	干燥条件	19.9	21.2	17.4	17.9	21.5	19.6
	湿润条件	30.4	31.8	35.5	34.9	28.2	32.2



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测试项目: 抗压强度

测试方法: 参考ASTM C170/C170M - 24a

测试条件:

试样: 50mm×50mm×50.0mm, 10片, 每种条件5个

干燥条件: 在60°C下干燥48h至恒重

湿润条件: 浸泡于22°C的水中 48 h

试验速度: 0.5 MPa/s

实验室环境条件:(23±2)°C (50±5)%相对湿度

## 测试结果:

测试项目	测试结果							
	单个测试值					平均值	标准差值	
抗压强度 (MPa)	干燥	112	110	99.4	99.8	101	104	6.1
	湿润	125	105	94.7	118	99.4	108	12.7



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## 检测报告

编号: SHHL241207290201SD

日期: 2025-2-25

编号: 10 of 24

测试项目: 弯曲强度

测试方法: 参考ASTM C880/C880M-24

测试条件:

试样: 350mm×100mm×30.0mm, 10片, 每种条件5个

干燥条件: 在60°C下干燥48h至室温

湿润条件: 浸泡于22°C 的水中 48 h

试验速度: 4MPa/min

实验室环境条件:(23±2)°C (50±5)%相对湿度

测试结果:

测试项目	测试结果							
	单个测试值					平均值	标准差值	
弯曲强度 (MPa)	干燥	15.6	13.6	12.9	12.5	12.1	13.3	1.4
	湿润	26.8	23.2	23.7	29.1	25.7	25.7	2.4



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## 检测报告

编号: SHHL241207290201SD

日期: 2025-2-25

页码: 11 of 24

测试项目: 断裂能

测试方法: 参考EN 14158:2004

测试条件:

试样: 200mm×200mm×14.5mm, 6片 (1片作为对照样品)

试验条件: 在 70°C 下干燥至恒重

测试高度: 100mm

钢球: 1Kg

实验室环境条件:(23±2)°C (50±5)%相对湿度

测试结果:

测试项目	测试项目				
	单个测试值				平均值
断裂能 (J)	2.84	6.32	4.80	7.22	5.28



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## 检测报告

编号: SHHL241207290201SD

日期: 2025-2-25

页码: 12 of 24

测试项目: 点冲击

测试方法: 参考 IAPMO/ANSI Z124.6-2007 第 4.2.1 节

测试条件:

试样: 810mm×660mm×14.6mm, 2片

钢球: 0.225kg

测试高度: 610mm

测试面: 正视图

实验室环境条件:(23±2)°C (50±5)%相对湿度

测试结果:

测试项目	测试结果
点冲击	未破裂



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## 检测报告

编号: SHHL241207290201SD

日期: 2025-2-25

页码: 13 of 24

测试项目: 吸水率和密度\*

样品描述: 见照片

测试方法: 参考 ASTM C97/C97M-18

测试条件:

试样: 50mm×50mm×15mm, 5片

处理条件: 在(60±2)°C 的烘箱中干燥48h → 置于干燥器内冷却至室温 → 在(22±2)°C 蒸馏水中浸泡48h

测试结果:

样品编号	1	2	3	4	5
吸水率(%)	0.02	0.02	0.05	0.04	0.07
平均吸水率 (%)	0.04				
标准偏差(%)	0.03				
密度(kg/m³)	2127	2130	2126	2127	2127
平均密度(kg/m³)	2127				
标准偏差 (kg/m³)	2				

\*检测项目由SGS-CSTC标准技术服务有限公司厦门分公司检测中心进行。



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## 检测报告

编号: SHHL241207290201SD

日期: 2025-2-25

页码: 14 of 24

测试项目: 耐磨性\*

样品描述: 见图片

测试方法: 参考 ASTM C241/C241M-21

测试条件:

试样: 50mm×50mm×15mm, 3片

处理条件: 在(60±2)°C 的烘箱中干燥48h → 置于干燥器内冷却至室温 → 进行耐磨测试 → 在(22±2)°C 蒸馏水中浸泡 48h

负荷: 2000g

转数: 225

测试面: 抛光面

测试结果:

样品编号	1	2	3
耐磨度, H <sub>a</sub>	21	21	27
平均耐磨度, H <sub>a</sub>	23		

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## 检测报告

编号: SHHL241207290201SD

日期: 2025-2-25

页码: 15 of 24

测试项目: 莫氏硬度\*

样品描述: 见图片

测试方法: 参考ASTM C1895-20

测试条件:

试样: 300mm×300mm×15mm, 1片

测试面: 抛光面

测试结果:

测试点编号	1	2	3
无划痕 (最高数值硬度点)	3	3	3
划痕 (最低数值硬度点)	4	4	4

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## 检测报告

编号: SHHL241207290201SD

日期: 2025-2-25

页码: 16 of 24

测试项目: 放射性核素\*

样品描述: 见图片

测试方法: GB 6566-2010

测试条件:

试样: 粉末, 由原始样品制成

测试结果:

测试项目	按照GB 6566-2010 中要求 (A类)	测试结果
内部暴露指数 $I_{Ra}$	$\leq 1.0$	$<0.1$
外部暴露指数 $I_{\gamma}$	$\leq 1.3$	$<0.1$

核素的特定活性

核素	单位	放射性
Ra-226	Bq/kg	1.4
Th-232		1.2
K-40		0.0

备注: 该样品符合GB 6566-2010A级装饰材料的要求。

按照GB 6566-2010 中要求:

建筑主要材料 装饰材料	符合 $I_{Ra} \leq 1.0$ , $I_{\gamma} \leq 1.0$ 当孔率>25%, 符合 $I_{Ra} \leq 1.0$ , $I_{\gamma} \leq 1.3$
	A类 : 符合 $I_{Ra} \leq 1.0$ , $I_{\gamma} \leq 1.3$
	B类 : 符合 $I_{Ra} \leq 1.3$ , $I_{\gamma} \leq 1.9$ , 但不符合 符合A类的要求
	C类 : 符合 $I_{\gamma} \leq 2.8$ 的要求, 但不符合 A类和 B类 的要求。

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## 检测报告

编号: SHHL241207290201SD

日期: 2025-2-25

页码: 17 of 24

测试项目: 线性热膨胀系数\*

样品描述: 见图片

测试方法: 参考ASTM C531-18

测试条件:

试样: 127mm×13mm×10mm, 4片

高温: 100°C, 16h

低温: 23°C, 16h

测试结果:

样品编号	1	2	3	4
线性热膨胀系数( $10^{-6}/^{\circ}\text{C}$ )	35.7	39.8	31.6	23.5
平均值 ( $10^{-6}/^{\circ}\text{C}$ )	32.6			

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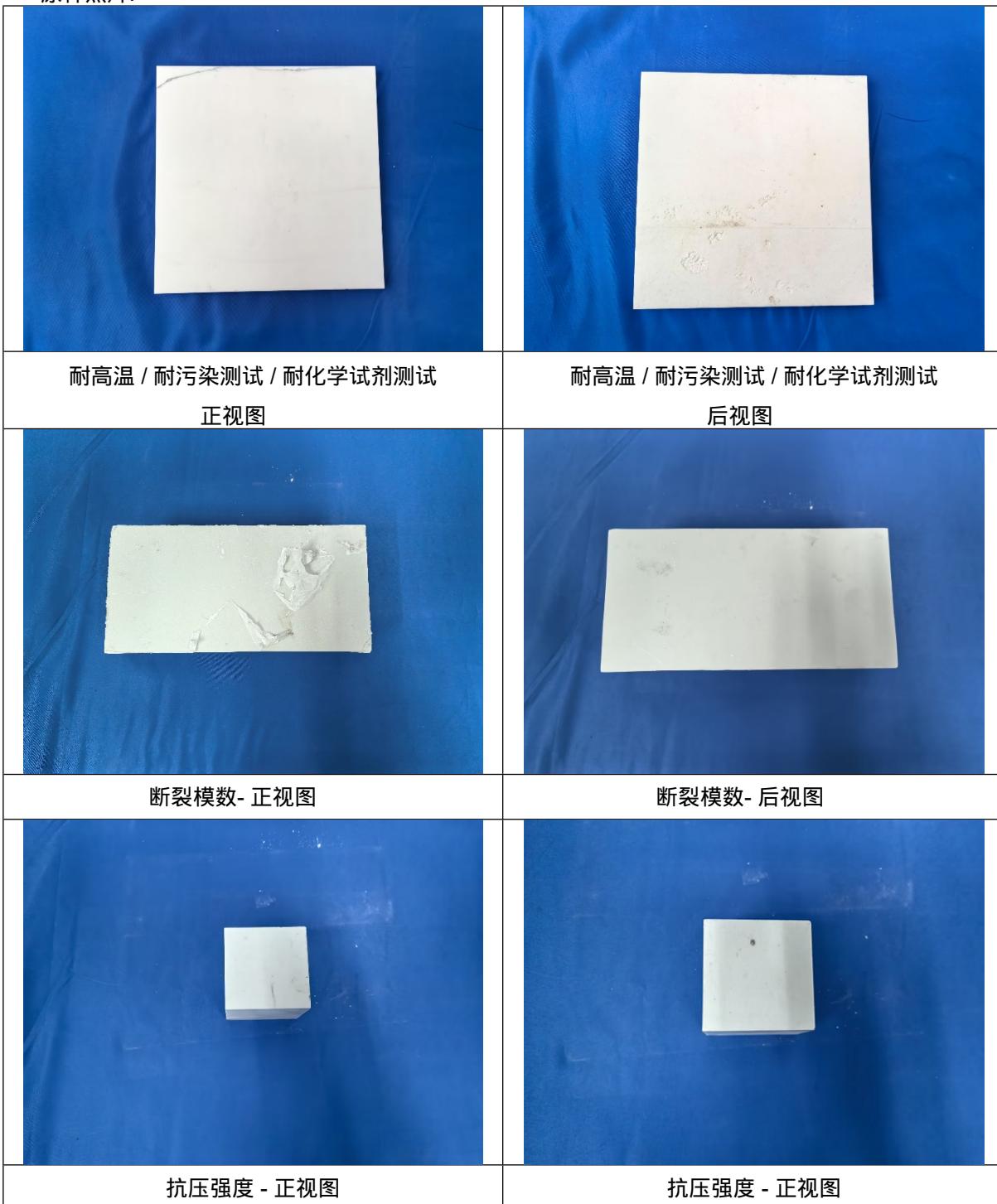
## 检测报告

编号: SHHL241207290201SD

日期: 2025-2-25

页码: 18 of 24

原样照片:



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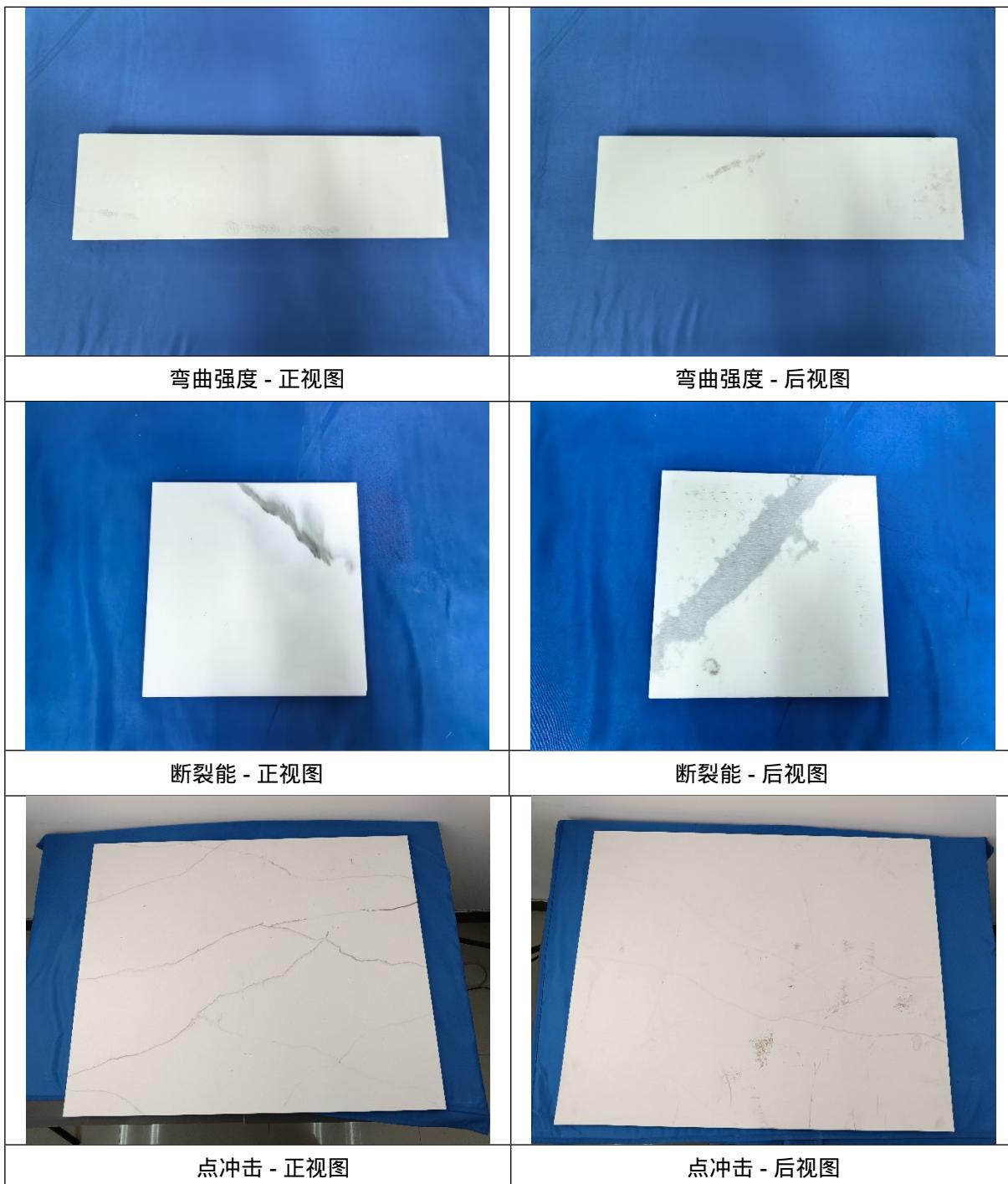
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## 检测报告

编号: SHHL241207290201SD

日期: 2025-2-25

页码: 19 of 24



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吸水率和密度\* / 耐磨性\* / 莫氏硬度\*  
/ 放射性核素\* / 线性热膨胀系数\*



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以下测试由SGS其他内部实验室进行。

### I. 测试依据

本测试是根据ASTM E84-2023d《建筑材料表面燃烧特性标准测试方法》进行的。

### II. 简介

该方法被指定为ASTM E84-2023d，建筑材料表面燃烧特性标准测试方法，在确定材料在特定测试条件下的相对表面燃烧特性。结果以火焰传播指数(FSI)和烟雾发展指数(SDI)表示。

本测试方法的目的是通过观察火焰在样本上的传播来确定材料的相对燃烧行为。报告了火焰传播和烟雾生成指数。单两者之间未必存在直接关联。

### III. 测试步骤

#### 1. 隧道预热

- 隧道预热至65.6°C(150°F)，通过位于燃烧器端口下游7.09米(23.25英尺)处的地板嵌入式热电偶测量。

- 冷却至40.6°C(105°F)，通过距离燃烧器3.96米(13英尺)处的地板嵌入式热电偶测量。

#### 2. 试样安装

- 打开隧道顶盖，将试样沿隧道边缘放置，形成长7.32米(24英尺)、距地面304.8毫米(12英寸)的连续天花板结构。

- 关闭顶盖并密封。

#### 3. 点火与观测

- 点燃燃气燃烧器后，每30秒观察并记录火焰传播距离。

- 绘制火焰传播距离与时间的关系图(忽略火焰前缘退缩)。

#### 4. 火焰传播指数(FSI)计算：

- 若曲线下面积(A)≤97.5 英尺·分钟，则 FSI = 0.515·A；

- 若A > 97.5 英尺·分钟，则 FSI = 4900/(195-A)。

#### 5. 烟雾指数计算

- 绘制烟雾浓度曲线，计算其曲线下面积与正庚烷曲线下面积的比值，乘以100后取最接近的5的倍数，作为烟雾发展指数(SDI)。

### IV. 条件处理

在测试之前，样品在 $23\pm2.8^{\circ}\text{C}$ ( $73.4\pm5^{\circ}\text{F}$ )和相对湿度 $50\pm5\%$ 的条件下调节至恒定重量。

#### 样品描述

样品名称	无硅人造石(由客户提供)
颜色	白色+灰色
厚度	15.0mm
密度	31.1 kg/m <sup>2</sup>
暴露面	印刷面

#### 测试安装方法:

- 试样为自支撑结构，直接放置于隧道内壁边缘。

- 试样由5块尺寸为550毫米(宽)×1460毫米(长)的板材组成，各段端对端连接。



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### 测试结果:

火焰传播指数, FSI	烟雾发展指数, SDI
0	0

### 评级说明:

根据《美国国家消防协会生命安全规范101号》第10章第10.2.3节“内墙与天花板饰面分类”，通过ASTM E84或UL 723《建筑材料表面燃烧特性测试方法》进行测试后，可依据火焰传播和烟雾发展指数对材料进行分类。

按照《国际建筑规范》第8章“内部装饰”第803节“墙面与天花板饰面”规定，此类内部装饰材料应根据ASTM E84或UL 723测试结果，按以下类别进行分组：

分类标准如下：

指数	A类	B类	C类
火焰传播指数	0-25	26-75	76-200
烟雾发展指数	0-450	0-450	0-450

由于测试样品的火焰传播指数为0，烟雾发展指数为0，因此符合A类内墙与天花板饰面材料的要求。



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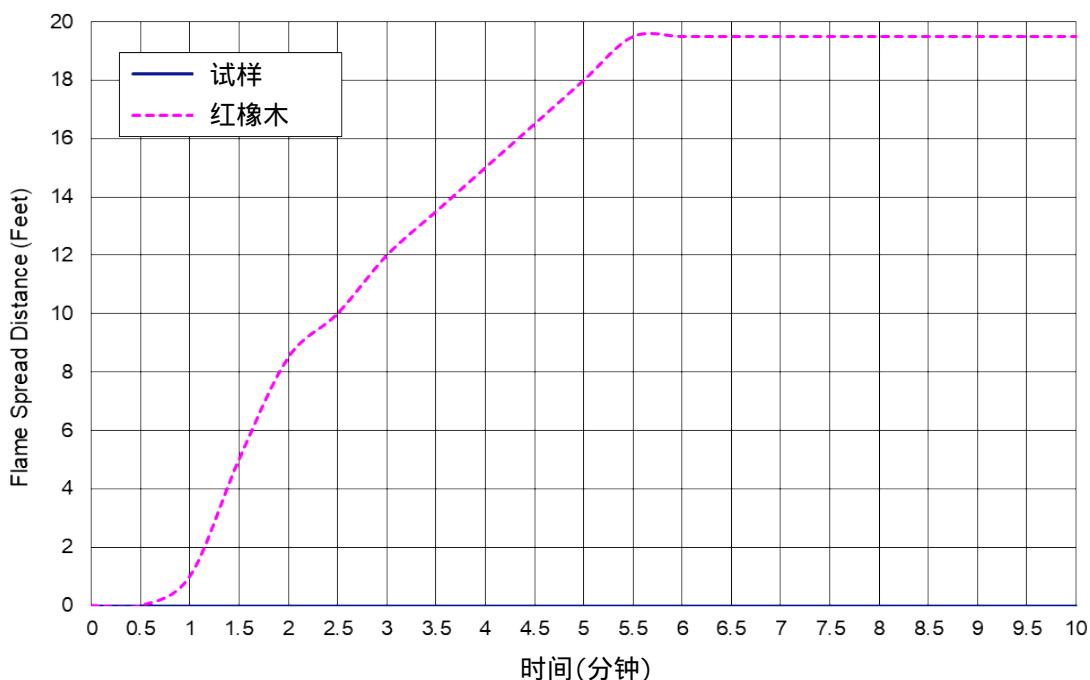
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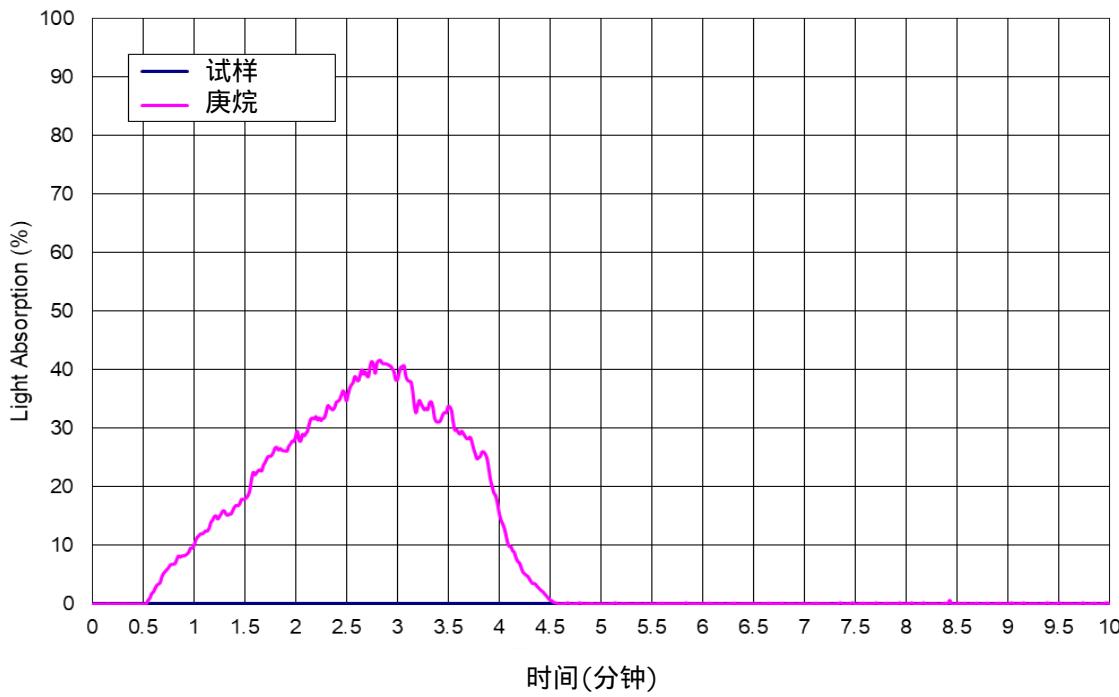
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图形结果:

火焰传播图



烟雾发展图



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## 观测记录:

点燃时间 (sec)	未点燃
达到最大火焰传播时间(sec)	不适用
最大火焰传播距离 (feet)	0
观察现象	开裂

## 测试照片:



照片真实性仅通过原始报告中的SGS认证

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