



## Εύκαμπτη πέτρα

### Τεχνικές προδιαγραφές

Συνολικό Πάχος	Πλάτος	Μήκος	Βάρος
2,00 - 9,00 mm ( $\pm 1$ )	600mm	1200mm	3 - 7,24 kg ( $\pm 5\%$ )

Απορρόφηση υγρασίας	$\leq 15\%$
Αντοχή στη φωτιά	A
Αντοχή στη θερμότητα/Ποσοστό μεταβολής διαστάσεων	$\leq 0.5\%$
Αντοχή σε τεχνητή γήρανση (2000 ώρες)	$\leq 1$
Ελαστικότητα	400mm
Εγγύηση	10 years
Πιστοποιήσεις	CE, SGS, CNAS

### Σύσταση υλικού

Χαλαζιακή άμμος	60%
Άργιλος	25%
Υαλοΐνες (fiberglass)	2%
Κόλλα	8%
Χρωστικές	3%
Πρόσθετα	2%





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No. 35-1, Xiangyin Road, Nanlian Community,  
Longgang Street, Longgang District, Shenzhen

## Certification of Conformity

### RoHS Directive (EU) 2015/863

The following product has been tested by Shenzhen ATL Testing Technology Co., Ltd., as specified complied with the requirements of RoHS Directive 2011/65/EU and amendment (EU) 2015/863, It is possible to use CE marking to demonstrate the conformity with the RoHS Directive.

Registration No.:	ATL202410081007
Applicant:	Zhejiang Hangfei New Materials Co., Ltd
Applicant Address:	No. 88, Chaoyang 2nd Road, Hangzhou Bay Economic and Technological Development Zone, Shangyu District, Shaoxing City, Zhejiang Province
Manufacturer:	Zhejiang Hangfei New Materials Co., Ltd
Manufacturer Address:	No. 88, Chaoyang 2nd Road, Hangzhou Bay Economic and Technological Development Zone, Shangyu District, Shaoxing City, Zhejiang Province
Product Designation:	Artificial Stone
Brand Name:	N/A
Model / Series Models:	LD-001,LD-002,LD-003,LD-004,LD-005,LD-006,LD-007,LD-008,LD-009,LD-0010

The referred test report: ATL202410081007R01 shows that the product complies with the essential requirements in the above listed standards, The applicant is authorized to use this declaration in connection with the EC declaration of conformity according to Annex VI of the Directive.



*Kenti Zhang*

Signed by Quality Manager  
Issue Date: Oct 11, 2024



The statement is based on a single evaluation of one sample of above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.



中国认可  
国际互认  
检测  
TESTING  
CNAS L7877

**TEST REPORT**

No.: **SDFTS25004608R01\_EN**

Date: **Aug 04,2025**

Page **1** of **6**

**ZHEJIANG HANGFEI NEW MATERIALS CO., LTD.**

**NO.88, CHAOYANG 2<sup>ND</sup> ROAD, HANGZHOU BAY ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, SHANGYU DISTRICT, SHAOXING CITY, ZHEJIANG PROVINCE**

- Sample Description** : SOFT STONE
- Product Specification** : 600\*1500mm
- Product or Lot No.** : LD2507001

The above sample(s) data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

\*\*\*\*\*

- SGS Ref. No.** : NBIN2506000098CM01
- Sample Receiving Date** : Jul 25,2025
- Testing Period** : Jul 25,2025 to Aug 04,2025
- Test Required** : To determine the flame spread index (FSI) and smoke-developed index (SDI) of the sample's surface burning characteristics when it is subjected to the conditions of specified in ASTM E84-24 "Standard Test Method for Surface Burning Characteristics of Building Materials"
- Test result(s)** : See attached sheet

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch

*Ada*

Ada Liu  
Approved signatory



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**TEST REPORT**    No.: **SDFTS25004608R01\_EN**    Date: **Aug 04,2025**    Page 2 of 6

**I. Test Conducted**

This test was conducted in accordance with ASTM E84-24 Standard Test Method for Surface Burning Characteristics of Building Materials.

**II. Introduction**

The method, designated as ASTM E84-24, "Standard Method of Test for Surface Burning Characteristics of Building Materials", is designed to determine the relative surface burning characteristics of materials under specific test conditions. Results are expressed in terms of flame spread index (FSI) and smoke developed index (SDI).

The purpose of this test method is to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame spread and smoke developed index are reported. However, there is not necessarily a relationship between these two measurements.

**III. Test Procedure**

The tunnel is preheated to 65.6°C (150°F), as measured by the floor-embedded thermocouple located 7.09m (23.25 ft) downstream of the burner ports, and allowed to cool to 40.6°C (105°F), as measured by the floor-embedded thermocouple located 3.96m (13 ft) from the burners. At this time the tunnel lid is raised and the test sample is placed along the ledges of the tunnel so as to form a continuous ceiling 7.32m (24 ft) long, 304.8mm (12 in) above the floor. The lid is then lowered into place.

Upon ignition of the gas burners, the flame spread distance is observed and recorded every 30 seconds. Flame spread distance versus time is plotted ignoring any flame front recessions. If the area under the curve (A) is less than or equal to 97.5 ft<sup>2</sup>/min, FSI = 0.515 A; if greater, FSI = 4900/(195-A).

The test results for smoke shall be plotted and the area under the curve shall be divided by the area under the curve for heptane, multiplied by 100, and rounded to the nearest multiple of five to establish a numerical smoke-developed index (SDI).

**IV. Conditioning**

Prior to testing, the sample was conditioned to a constant weight at a temperature of (23±2.8)°C (73.4±5)°F and at a relative humidity of (50±5)%.



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**TEST REPORT**

No.: **SDFTS25004608R01\_EN**

Date: **Aug 04, 2025**

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**Sample Details**

Sample description	Soft Stone
Sample size	1500mm x 600mm
Thickness	3.5mm

**Exposed face:** Smooth surface

**Mounting methods:**

The specimen was supported during testing by 1/8" round metal rods placed at nominal 18 inch intervals across the width of the test chamber.

**Test results:**

Flame Spread Index, FSI	Smoke-developed Index, SDI
5	20

**Rating:**

The National Fire Protection Association Life Safety Code 101, Chapter 10, Section 10.2.3 "Interior Wall and Ceiling Finish Classification", has a means of classifying materials with respect to Flame Spread and Smoke Developed when tested in accordance with ASTM E84, UL 723 "Method of Test of Surface Burning Characteristics of Building Materials".

International Building Code, Chapter 8, Interior Finishes, Section 803 "Wall and Ceiling Finishes", was classified in accordance with ASTM E84 or UL 723. Such interior finish materials shall be grouped in the following classes in accordance with their flame spread and smoke-developed indexes.

**The classifications are as follows:**

Classification	Flame Spread Index, FSI	Smoke-developed Index, SDI
Class A	0-25	0-450
Class B	26-75	0-450
Class C	76-200	0-450

Since the tested sample received a Flame Spread Index 5 and a Smoke-developed Index 20, it **would meet** the requirements of **Class A** interior Wall & Ceiling Finish Category.



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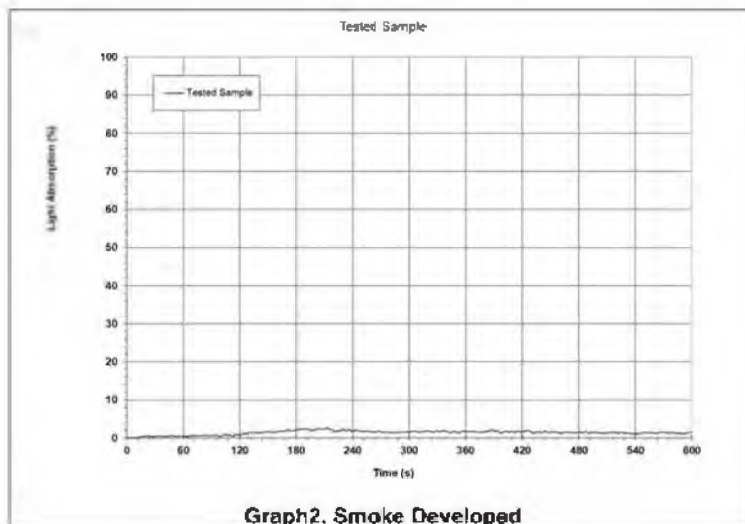
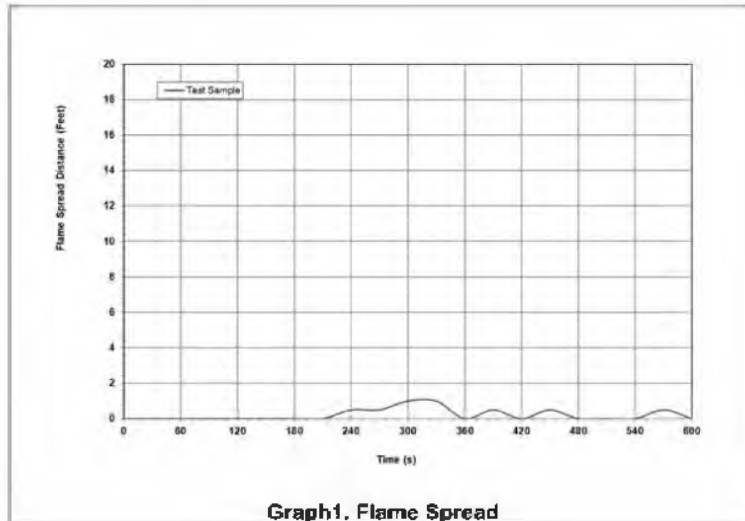
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**Graphical Results:**



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**TEST REPORT**

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Date: **Aug 04,2025**

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**Observations**

Time to ignition (sec)	240
Time to Max. FS (sec)	290
Maximum FS (feet)	1.0
Observations	None

**Warning:**

The use of supporting materials on the underside of the test specimen has the ability to lower the flame spread index from those which might be obtained if the specimen could be tested without such support. These test results do not necessarily relate to indices obtained by testing materials without such support.

Testing of materials that melt, drip, or delaminate to such a degree that the continuity of the flame front is destroyed, results in low flame spread indices that do not relate directly to indices obtained by testing materials that remain in place.

The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.

**Statement:**

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.



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**TEST REPORT**

No.: **SDFTS25004608R01\_EN**

Date: **Aug 04,2025**

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**ZHEJIANG HANGFEI NEW MATERIALS CO., LTD.**

**NO.88, CHAOYANG 2<sup>ND</sup> ROAD, HANGZHOU BAY ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, SHANGYU DISTRICT, SHAOXING CITY, ZHEJIANG PROVINCE**

- Sample Description** : SOFT STONE
- Product Specification** : 600\*1500mm
- Product or Lot No.** : LD2507001

The above sample(s) data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

\*\*\*\*\*

- SGS Ref. No.** : NBIN2506000098CM01
- Sample Receiving Date** : Jul 25,2025
- Testing Period** : Jul 25,2025 to Aug 04,2025
- Test Required** : To determine the flame spread index (FSI) and smoke-developed index (SDI) of the sample's surface burning characteristics when it is subjected to the conditions of specified in ASTM E84-24 "Standard Test Method for Surface Burning Characteristics of Building Materials"
- Test result(s)** : See attached sheet

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch

*Ada*

Ada Liu  
Approved signatory



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**TEST REPORT**

No.: **SDFTS25004608R01\_EN**

Date: **Aug 04, 2025**

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**I. Test Conducted**

This test was conducted in accordance with ASTM E84-24 Standard Test Method for Surface Burning Characteristics of Building Materials.

**II. Introduction**

The method, designated as ASTM E84-24, "Standard Method of Test for Surface Burning Characteristics of Building Materials", is designed to determine the relative surface burning characteristics of materials under specific test conditions. Results are expressed in terms of flame spread index (FSI) and smoke developed index (SDI).

The purpose of this test method is to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame spread and smoke developed index are reported. However, there is not necessarily a relationship between these two measurements.

**III. Test Procedure**

The tunnel is preheated to 65.6°C (150°F), as measured by the floor-embedded thermocouple located 7.09m (23.25 ft) downstream of the burner ports, and allowed to cool to 40.6°C (105°F), as measured by the floor-embedded thermocouple located 3.96m (13 ft) from the burners. At this time the tunnel lid is raised and the test sample is placed along the ledges of the tunnel so as to form a continuous ceiling 7.32m (24 ft) long, 304.8mm (12 in) above the floor. The lid is then lowered into place.

Upon ignition of the gas burners, the flame spread distance is observed and recorded every 30 seconds. Flame spread distance versus time is plotted ignoring any flame front recessions. If the area under the curve (A) is less than or equal to 97.5 ft<sup>2</sup>/min, FSI = 0.515 A; if greater, FSI = 4900/(195-A).

The test results for smoke shall be plotted and the area under the curve shall be divided by the area under the curve for heptane, multiplied by 100, and rounded to the nearest multiple of five to establish a numerical smoke-developed index (SDI).

**IV. Conditioning**

Prior to testing, the sample was conditioned to a constant weight at a temperature of (23±2.8)°C (73.4±5)°F and at a relative humidity of (50±5)%.



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**TEST REPORT**

No.: **SDFTS25004608R01\_EN**

Date: **Aug 04, 2025**

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**Sample Details**

Sample description	Soft Stone
Sample size	1500mm x 600mm
Thickness	3.5mm

**Exposed face:** Smooth surface

**Mounting methods:**

The specimen was supported during testing by 1/4" round metal rods placed at nominal 18 inch intervals across the width of the test chamber.

**Test results:**

Flame Spread Index, FSI	Smoke-developed Index, SDI
5	20

**Rating:**

The National Fire Protection Association Life Safety Code 101, Chapter 10, Section 10.2.3 "Interior Wall and Ceiling Finish Classification", has a means of classifying materials with respect to Flame Spread and Smoke Developed when tested in accordance with ASTM E84, UL 723 "Method of Test of Surface Burning Characteristics of Building Materials".

International Building Code, Chapter 8, Interior Finishes, Section 803 "Wall and Ceiling Finishes", was classified in accordance with ASTM E84 or UL 723. Such interior finish materials shall be grouped in the following classes in accordance with their flame spread and smoke-developed indexes.

**The classifications are as follows:**

Classification	Flame Spread Index, FSI	Smoke-developed Index, SDI
Class A	0-25	0-450
Class B	26-75	0-450
Class C	76-200	0-450

Since the tested sample received a Flame Spread Index 5 and a Smoke-developed Index 20, it **would meet** the requirements of **Class A** interior Wall & Ceiling Finish Category.



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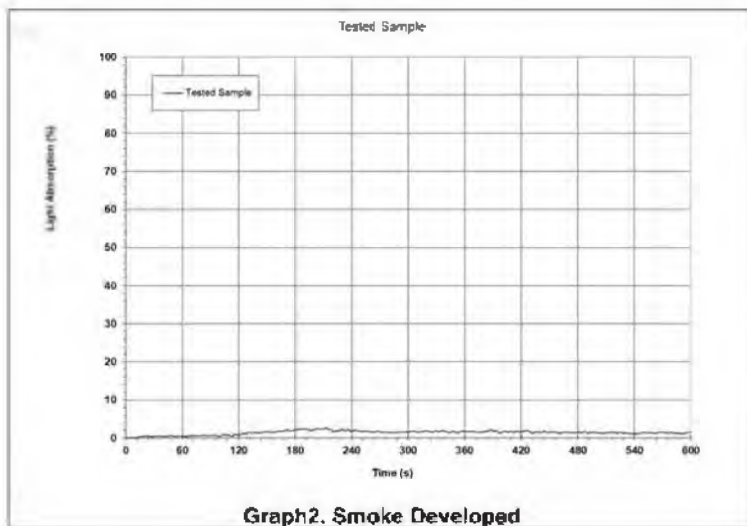
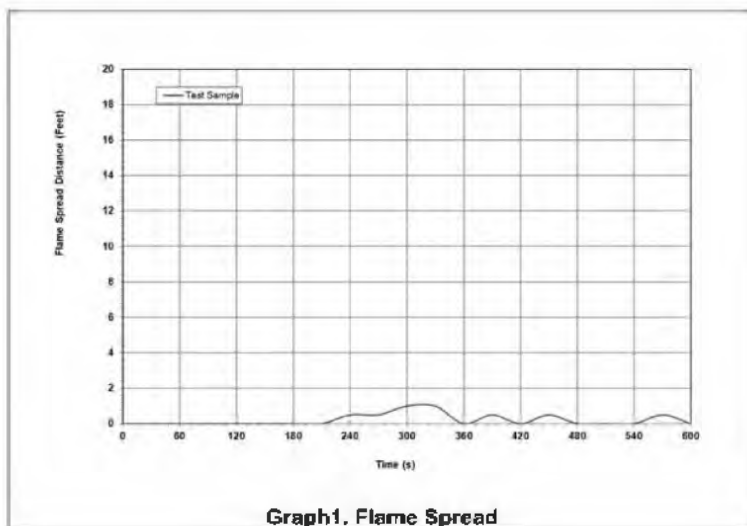
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**Graphical Results:**



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**TEST REPORT**

No.: **SDFTS25004608R01\_EN**

Date: **Aug 04,2025**

Page **5** of **6**

**Observations**

Time to ignition (sec)	240
Time to Max. FS (sec)	290
Maximum FS (feet)	1.0
Observations	None

**Warning:**

The use of supporting materials on the underside of the test specimen has the ability to lower the flame spread index from those which might be obtained if the specimen could be tested without such support. These test results do not necessarily relate to indices obtained by testing materials without such support.

Testing of materials that melt, drip, or delaminate to such a degree that the continuity of the flame front is destroyed, results in low flame spread indices that do not relate directly to indices obtained by testing materials that remain in place.

The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.

**Statement:**

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.



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210900110152 (2021)沪市监认验第 135 号

W02214201051



# 检测报告

## Test Report

产品名称: 柔石

Name of Sample

型号规格: I 级

Type

委托单位: 浙江航飞新材料有限公司

Applicant

检测类别: 委托检验

Test Purpose

上海市质量监督检验技术研究院  
Shanghai Institute of Quality Inspection and Technical Research





# 上海市质量监督检验技术研究院 检测报告

报告编号: W02214201051

第 1 页 共 2 页

样品名称	柔石		检验类别	委托检验
型号规格	I级		商标	/
等级	合格品			
委托单位	浙江航飞新材料有限公司			
受检单位	浙江航飞新材料有限公司			
标称生产单位	浙江航飞新材料有限公司			
委托书编号	2201219024	委托/抽样日期	2022 年 09 月 01 日	
到样日期	2022 年 09 月 03 日	抽样地点	/	
样品数量	100mm×100mm 3块 150mm×70mm 3块等	受检批数量	/	
生产日期	/	批号/编号	/	
样品到样状况	完好			
检测地点	上海市江月路900号			
检测依据	JC/T. 2219-2014《改性无机粉复合建筑饰面片材》 GB/T 9780-2013《建筑涂料涂层耐沾污性试验方法》等			
检测项目	外观质量、尺寸偏差、吸水率、抗冻性、耐热性、耐人工老化性 (2000h) 柔度(弯曲直径100mm)耐沾污性、耐化学腐蚀性			
检测日期	2022 年 09 月 03 日至2022 年 12 月 21 日			
检测结论	该样品本次所检项目检测结果符合上述检测依据/判定依据相关规定。详见本报告检测结果汇总表。 			
委托单位 通讯资料	地址	绍兴市上虞区杭州湾经济技术开发区朝阳二路88号		
	邮编	/	/	/
备注	本报告检验检测结论是根据检验检测依据仅对所检项目得出的，不代表未经检验检测的项目或功能符合要求。			

批准 陈业刚  
主任  
王国荣  
工程师

审核 陈宝松

主检 

检测报告  
Test Report



报告编号: W02214201051

检验汇总							
序号 Number	检测项目 Test items		技术指标(室外墙面 凹凸面) Technical indicators (outdoor wall concave and convex surface)		检验结果 Test result	单项判定 Individual judgment	备注 Remark
1	外观质量 Appearance Quality		不允许有贯穿性裂缝或孔洞、分层, 应无明显缺边、掉角、孔洞、起泡、色差 Penetrating cracks, holes, layering are not allowed. There should be no obvious missing edges, corners, holes, bubbles, or color differences.		无贯穿性裂缝或孔洞、分层, 无明显缺边、掉角、孔洞、起泡、色差 No penetrating cracks or holes, no obvious missing edges, corners, holes, bubbles, or color differences	符合 Qualified	
2	尺寸偏差 Size Deviation	切割类 Cutting	长度 Length	±1	1	符合 Qualified	
			宽度 Width		1		
3	吸水率/% Water absorption/%		≤15, 试件无起鼓、开裂、分层、粉化现象 ≤15. The specimen has no bulging, cracking, layering or powdering.		试件无起鼓、开裂、分层、粉化现象 The specimen has no bulging, cracking, layering or powdering.	符合 Qualified	
4	抗冻性 Frost Resistance		表面无裂纹、粉化、分层等损坏现象 There is no surface damage such as cracks, powdering, layering, etc.		表面无裂纹、粉化、分层等损坏现象 There is no surface damage such as cracks, powdering, layering, etc.	符合 Qualified	
5	耐热性 Heat resistance	尺寸变化率/% Dimension change rate/%	纵向 Vertical	≤0.5	≤0.5	符合 Qualified	
			横向 Horizontal		0.1		
6	耐人工老化性 (2000h) Artificial aging resistance (2000h)	外观 Exterior	无起泡、开裂或分层 No blistering, cracking or layering		无起泡、开裂或分层 No blistering, cracking or layering	符合 Qualified	
		粉化/级 Powdering/Grade	≤1		0		
		变色/级 Color change/level	≤2		0		
7	柔度(弯曲直径 100mm) Flexibility (bending diameter 100mm)		无裂纹或断裂 No cracks or breaks		无裂纹或断裂 No cracks or breaks	符合 Qualified	
8	耐沾污性/级 Stain resistance/grade		≤2		2	符合 Qualified	
9	耐化学腐蚀性 Chemical resistance	耐酸性 Acid resistance	表面无开裂、分层、明显变色 No cracking, layering or obvious discoloration on the surface		表面无开裂、分层、明显变色 No cracking, layering or obvious discoloration on the surface	符合 Qualified	
		耐酸性 Acid resistance	表面无开裂、分层、明显变色 No cracking, layering or obvious discoloration on the surface		表面无开裂、分层、明显变色 No cracking, layering or obvious discoloration on the surface		
10	注. 委托方提供样品长度、宽度标称值分别为: 590mm、300mm。注 2. 老化试验条件: 340nm 处的辐照度: 0.51W/m; 相对湿度: (40~60)%; 黑标准温度 (65±2)C; 淋雨周期: 18min/102min (淋水时间/不淋水时间)。 Note. The nominal values of sample length and width provided by the client are: 590mm, 300mm respectively. Note 2. Aging test conditions: irradiance at 340nm: 0.51W/m; relative humidity: (40~60)%; black standard temperature (65±2)C; rain cycle: 18min/102min (watering time/no watering time).						



## 注 意 事 项

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- 2、国家家具质量检验检测中心  
National Center of Quality Inspection and Testing on Furniture
- 3、国家建筑材料及装饰装修材料质量检验检测中心  
National Center of Quality Inspection and Testing on Building and Decoration Materials
- 4、国家智能电网分布式电源装备质量检验检测中心（上海）  
National Center of Quality Inspection and Testing on Distributed Power Equipment in Smart Grid (Shanghai)
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- 7、国家保洁产品质量检验检测中心  
National Center of Quality Inspection and Testing on Cosmetics and Cleaning Products
- 8、国家电光源质量检验检测中心（上海）  
National Center of Inspection and Testing on Electric Light Source Quality (Shanghai)
- 9、国家灯具质量检验检测中心  
China National Lighting Fitting Quality Inspection and Testing Centre (CLTC)

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