

## 测试报告

编号 : GZIN1807038061CM\_CN

日期 : 2018-08-02

页码 : 1 of 24

客户名称: 广州星和铝塑制品有限公司  
客户地址: 广州市南沙区东涌镇鱼窝头马克工业区

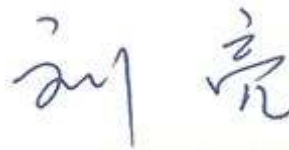
样品名称 : 铝塑板  
产品规格 : 1220×2440×3mm, 1250×3200×3mm, 1500×3000×3mm,  
1220×2440×4mm, 1250×3200×4mm, 1500×3000×4mm,  
or customized solid color, metallic color, wooden color, marble color  
生产商 : 广州星和铝塑制品有限公司

以上信息及样品由客户提供及确认, SGS 不承担证实客户提供信息的准确性、适当性和(或)完整性的责任。

\*\*\*\*\*

收样日期 : 2018-07-18  
测试开始时间 : 2018-07-18  
测试结束时间 : 2018-08-02  
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)

通标标准技术服务有限公司广州分公司  
检测中心  
授权签名



刘亮

授权签字人



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### 结果总结:

序号	测试项目	测试方法	结果	结论
1	光泽度	ASTM D523-14(2018)	42	/
2	铅笔硬度	ASTM D3363-05(2011) e2	H	/
3	干附着力	AAMA 2605-17a 第 8.4.1.1 节 & ASTM D3359-17	5B	/
4	湿附着力	AAMA 2605-17a 第 8.4.1.3 节, 第 8.4.1.1 节 & ASTM D3359-17	5B	/
5	沸水附着力	AAMA 2605-17a 第 8.4.1.2 节, 第 8.4.1.1 节 & ASTM D3359-17	5B	/
6	耐盐酸	AAMA 2605-17a 第 8.7.1 节	无起泡或其它可见变化	/
7	耐窗户清洗剂	参照 AAMA 2605-17a 第 8.7.5 节和客户要求	无起泡或其它可见变化、无涂层脱落	/
8	耐泥浆	AAMA 2605-17a 第 8.7.2 节	无附着力损失或其它可见变化	/
9	耐家用化学品	参照 ASTM D1308-02(2013)和客户要求	无可见变化	/
10	耐磨性能	ASTM D968-17 方法 A	84.0L/mil	/
11	耐冲击性	ASTM D2794-93(2010)	90kg·cm	/



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Guangzhou Branch Testing Centre Construction Material Laboratory

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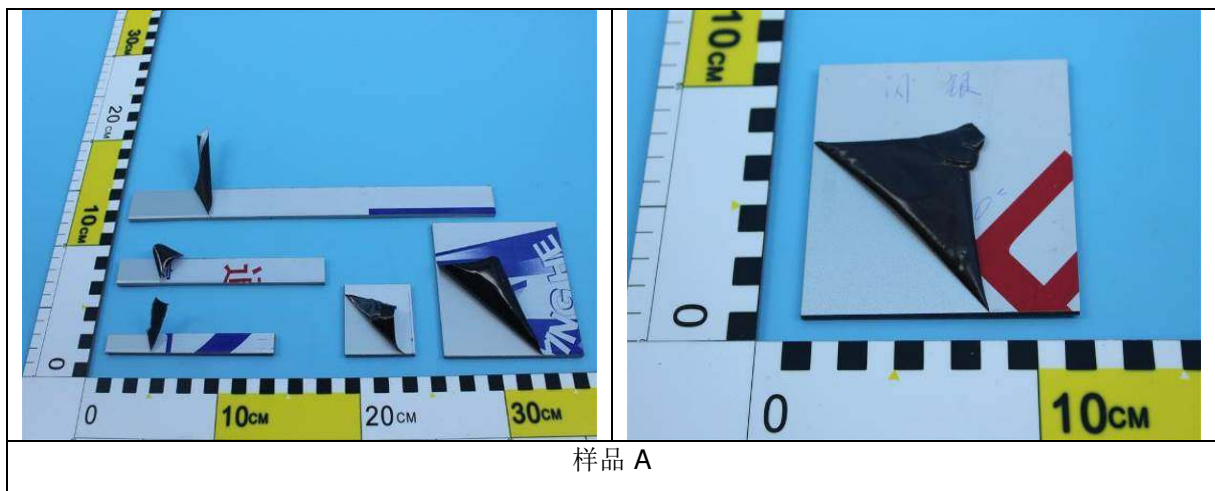
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序号	测试项目	测试方法	结果	结论	
12	负荷变形温度	参照 ASTM D648-18 方法 B 和客户要求	103.1°C	/	
13	弯曲测试	ASTM D790-17 程序 A	弯曲强度	97.8MPa	/
			弯曲模量	16400MPa	
14	单位面积质量	客户提供	样品 A	6134g/m <sup>2</sup>	/
			样品 B	4673g/m <sup>2</sup>	
15	剥离强度	ASTM D903-98(2017)	1.20kgf/mm	/	
16	剪切强度	ASTM D732-17	26.8 MPa	/	
17	拉伸测试	ASTM D638-14	42.3MPa	/	

备注: 合格: 达到要求  
 不合格: 未达到要求  
 /: 不下判定

原样照片:



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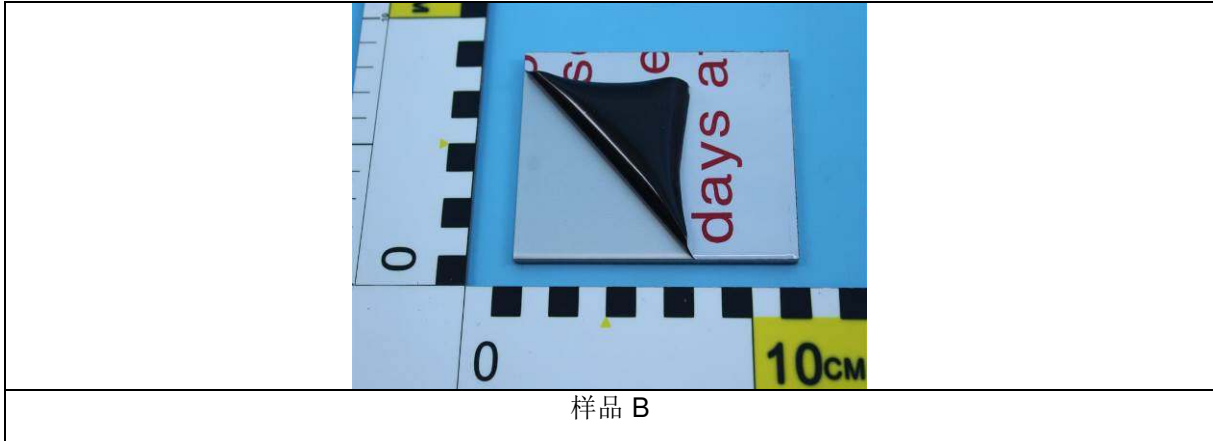
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测试项目 1: 光泽度

样品描述: 见照片

测试方法: ASTM 523-14(2018)

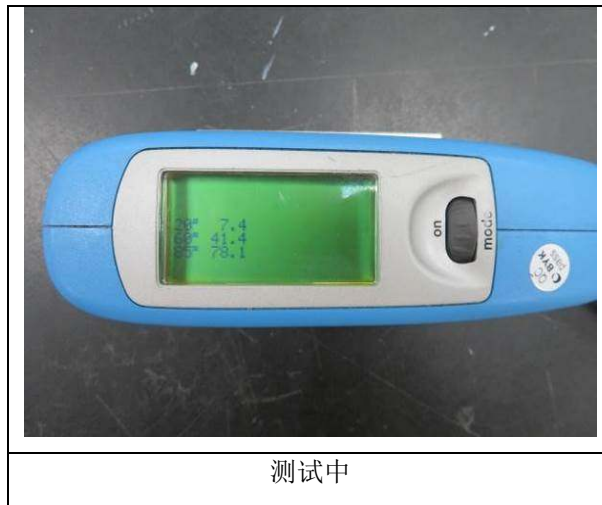
测试条件:

几何角度: 60°

测试结果:

样品	光泽度
A	42

测试照片:



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测试项目 2: 铅笔硬度

样品描述: 见照片

测试方法: ASTM D3363-05(2011) <sup>e2</sup>

测试条件:

测试铅笔: Mitsubishi® Uni

测试结果:

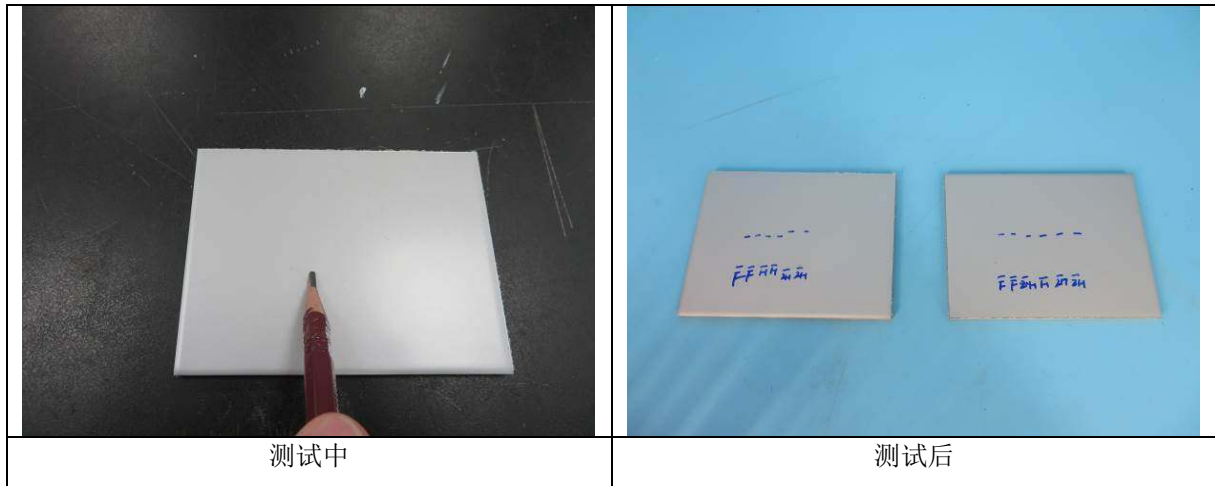
样品	擦伤硬度
A	H

备注: 依据 ASTM D3363-05(2011) <sup>e2</sup>, 6H 最硬, 6B 最软。

6B-5B-4B-3B-2B-B-HB-F-H-2H-3H-4H-5H-6H

较软 ←-----→ 较硬

测试照片:



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测试项目 3: 干附着力

样品描述: 见照片

测试方法: AAMA 2605-17a 第 8.4.1.1 节 & ASTM D3359-17

测试条件:

划格间距: 1mm

胶带: Elcometer 99

测试结果:

样品	测试结果
A	5B

根据 ASTM D3359-17 方法 B, 附着力等级 5B 最好, 0B 最差。



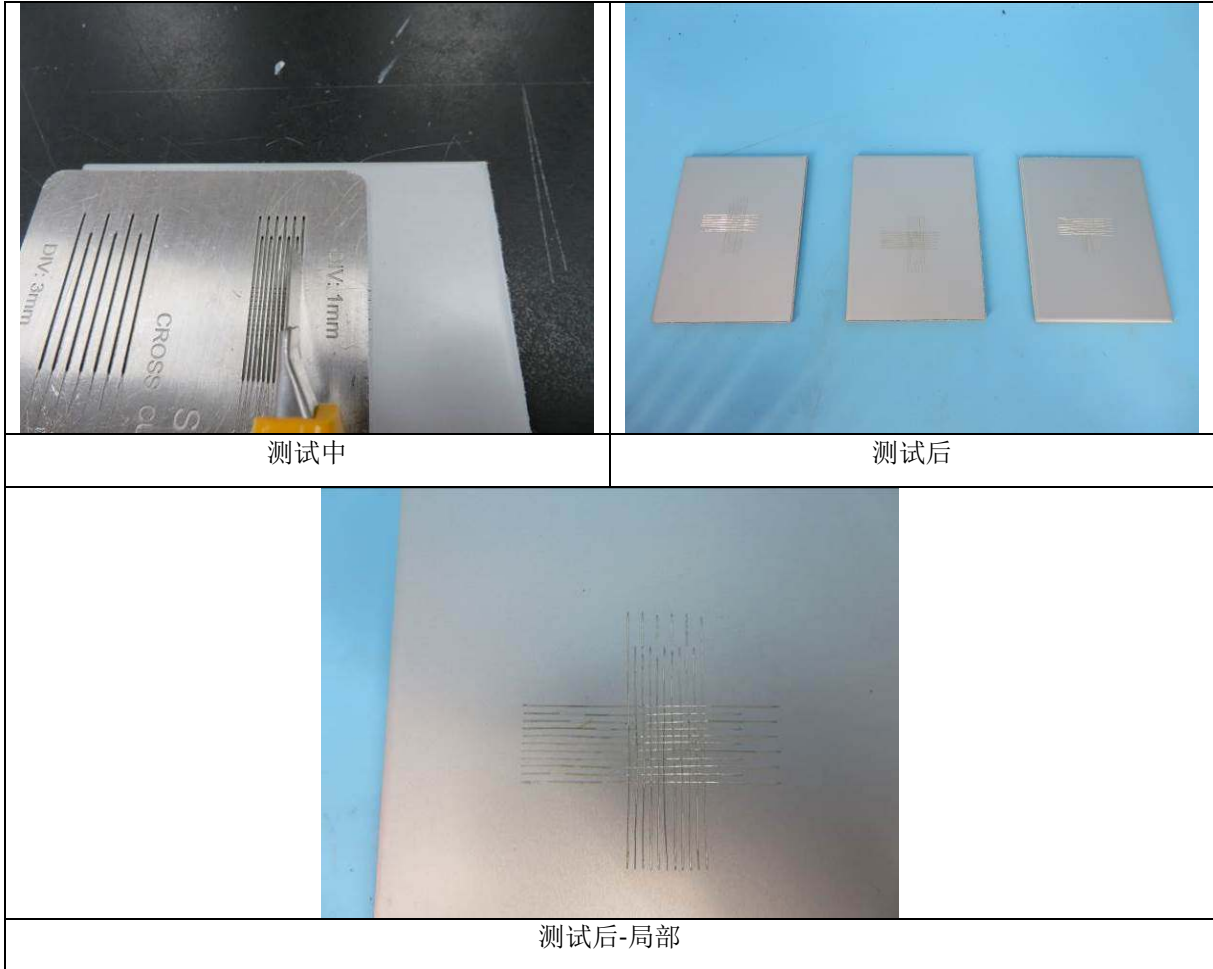
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测试照片:



测试项目 4: 湿附着力

样品描述: 见照片

测试方法: AAMA 2605-17a 第 8.4.1.3 节, 第 8.4.1.1 节 & ASTM D3359-17

测试条件:

划格间距: 1mm

浸泡在 38°C 水中: 24h

胶带: Elcometer 99



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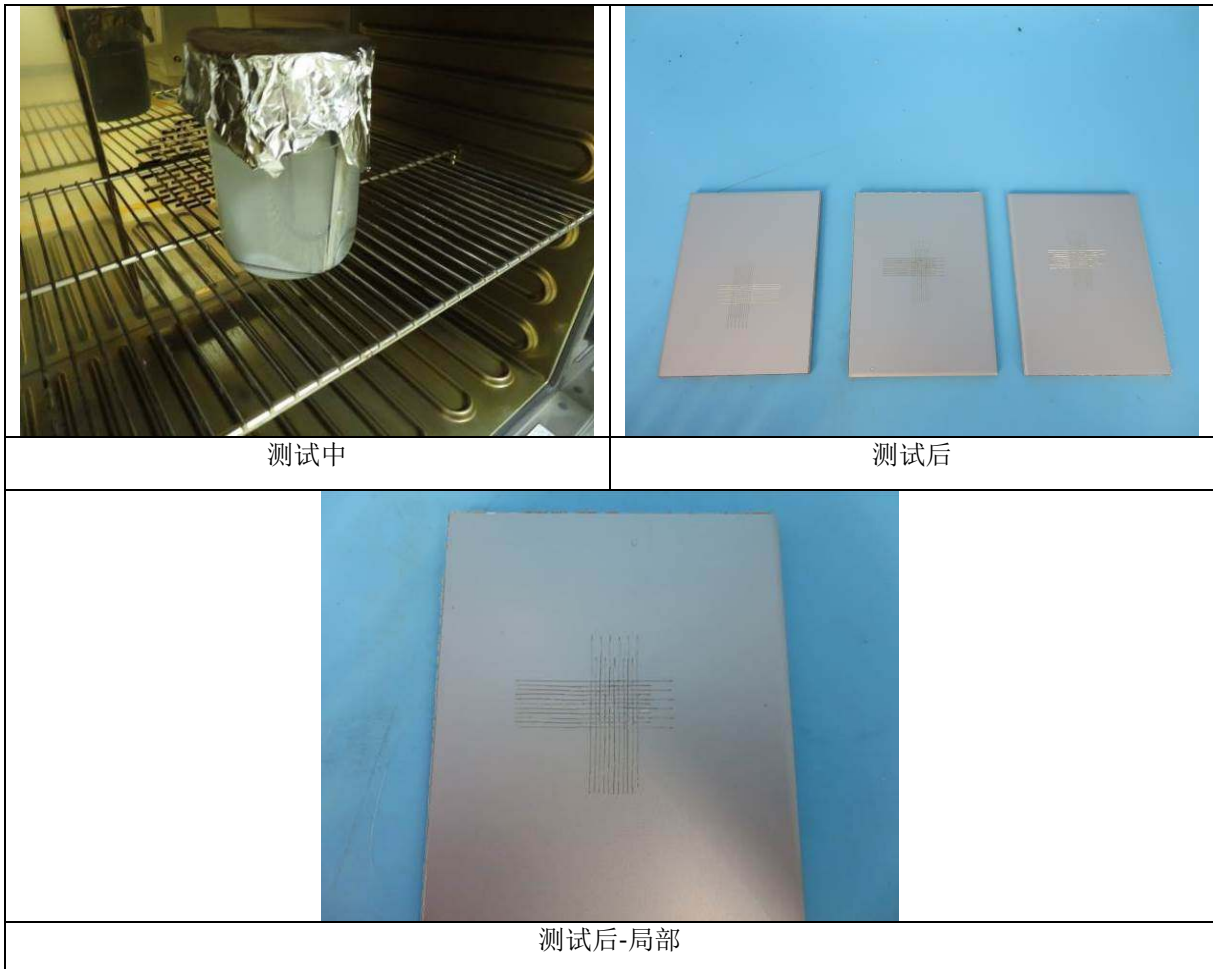
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测试结果:

样品	测试结果
A	5B

备注: 根据 ASTM D3359-17 方法 B, 附着力等级 5B 最好, 0B 最差。

测试照片:



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测试项目 5: 沸水附着力

样品描述: 见照片

测试方法: AAMA 2605-17a 第 8.4.1.2 节, 第 8.4.1.1 节 & ASTM D3359-17

测试条件:

划格间距: 1mm

浸沸水: 20min

胶带: Elcometer 99

测试结果:

样品	测试结果
A	5B

备注: 根据 ASTM D3359-17 方法 B, 附着力等级 5B 最好, 0B 最差。

测试照片:

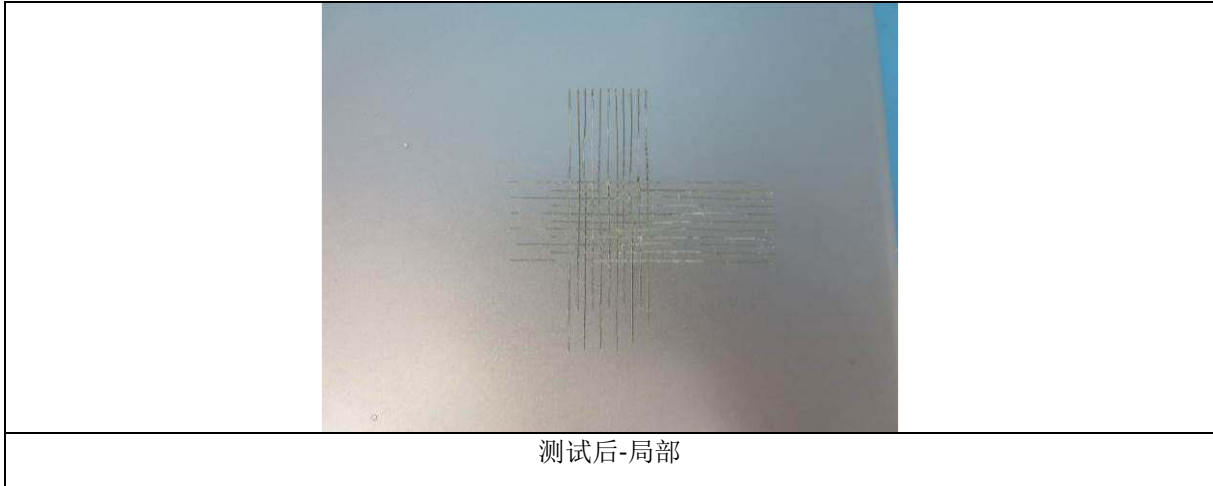


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测试项目 6: 耐盐酸

样品描述: 见照片

测试方法: AAMA 2605-17a 第 8.7.1 节

测试条件:

介质: 10%(V/V) HCl

接触方式: 点滴法

温度: 室温

接触时间: 15min

测试结果:

样品	测试结果
A	无起泡或其它可见变化



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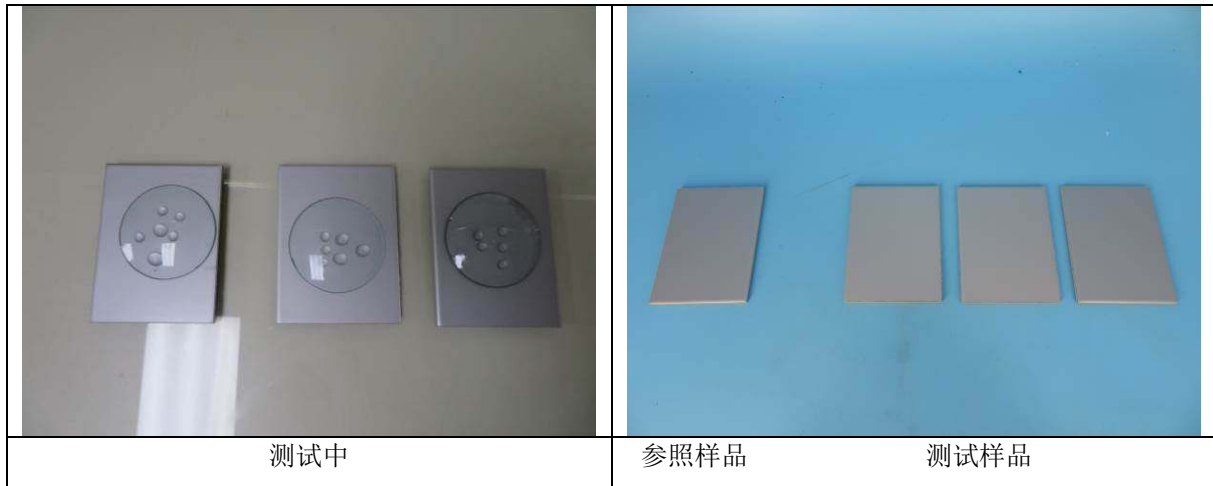
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测试照片:



测试项目 7: 耐窗户清洗剂

样品描述: 见照片

测试方法: 参照 AAMA 2605-17a 第 8.7.5 节和客户要求

测试条件:

介质: 稳捷®玻璃清洁剂

接触方式: 点滴法

温度: 室温

接触时间: 24h

划格间距: 1mm

胶带: Elcometer 99

测试结果:

样品	测试结果
A	无起泡或其它可见变化、无涂层脱落

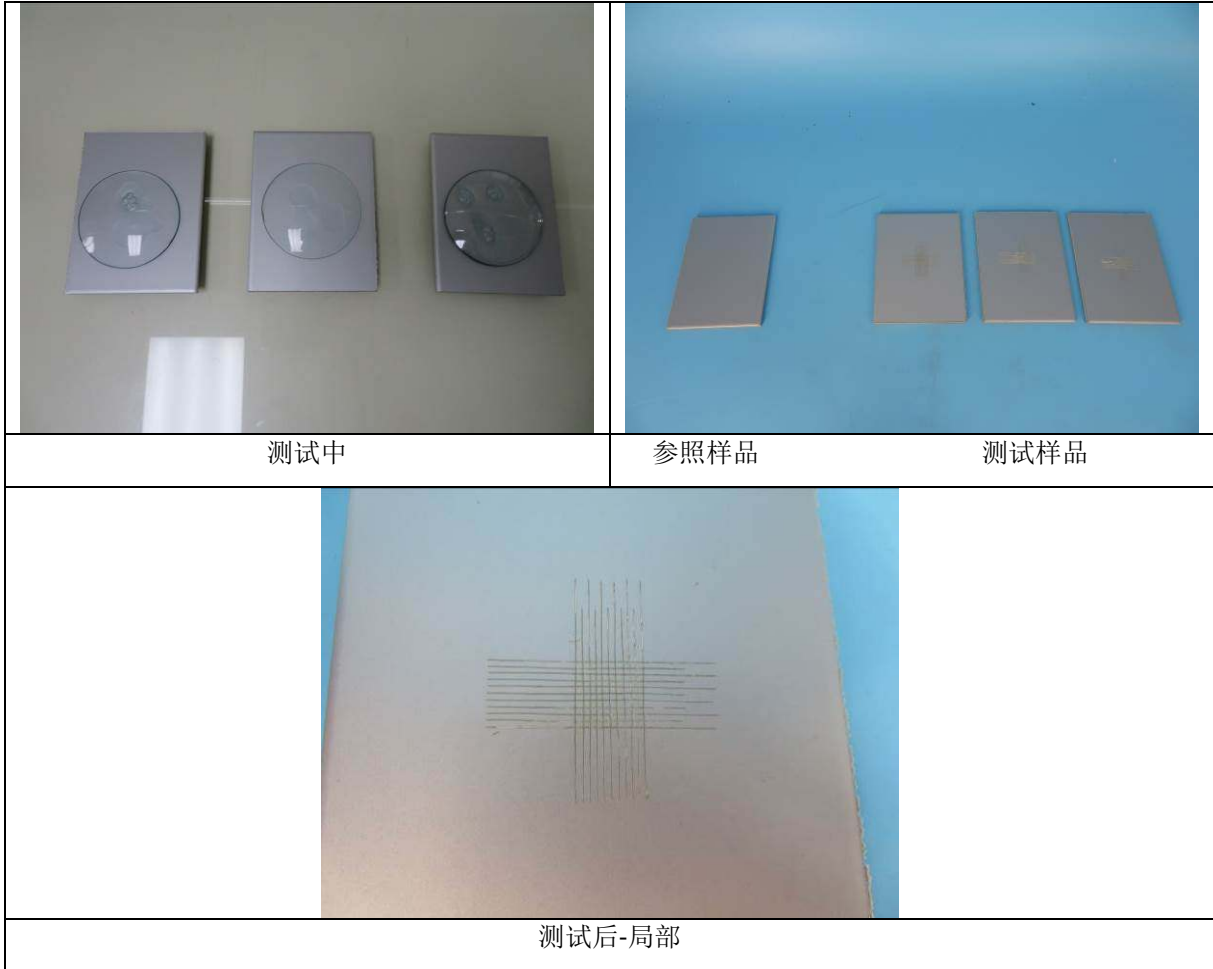
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测试项目 8: 耐泥浆

样品描述: 见照片

测试方法: AAMA 2605-17a 第 8.7.2 节

测试条件:

温度: 38°C

湿度: 100%RH

暴露时间: 24h

测试结果:

样品	测试结果
A	无附着力损失或其它可见变化

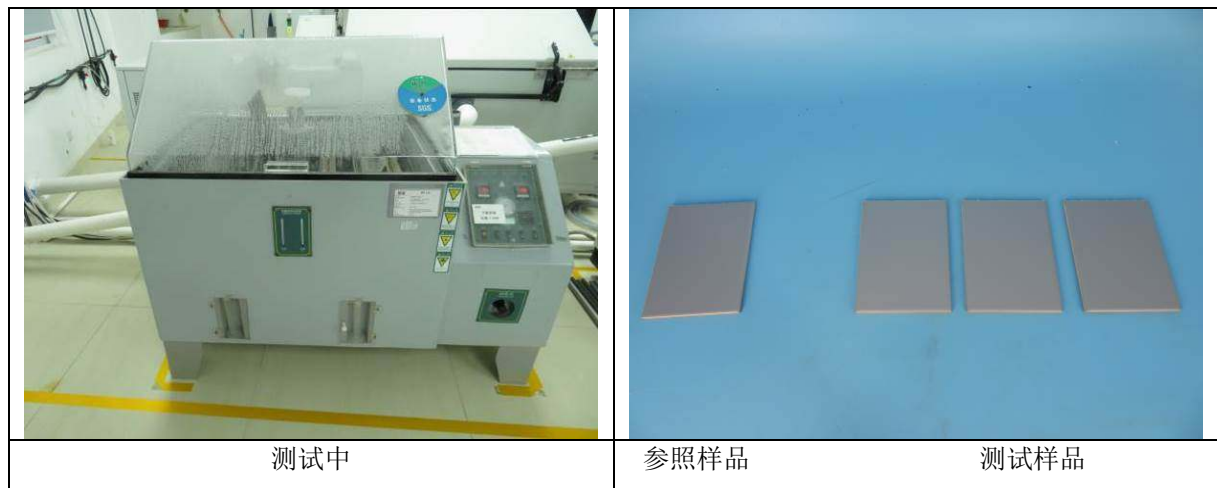
备注: 砂浆成分如下:

石灰粉: 75g

标准砂: 225g

纯水: 100g

测试照片:



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## 测试报告

编号 : GZIN1807038061CM\_CN

日期 : 2018-08-02

页码 : 15 of 24

测试项目 9: 耐家用化学品

样品描述: 见照片

测试方法: 参照 ASTM D1308-02(2013)和客户要求

测试条件:

介质: 丙酮 (AR)

接触方法: 点滴法

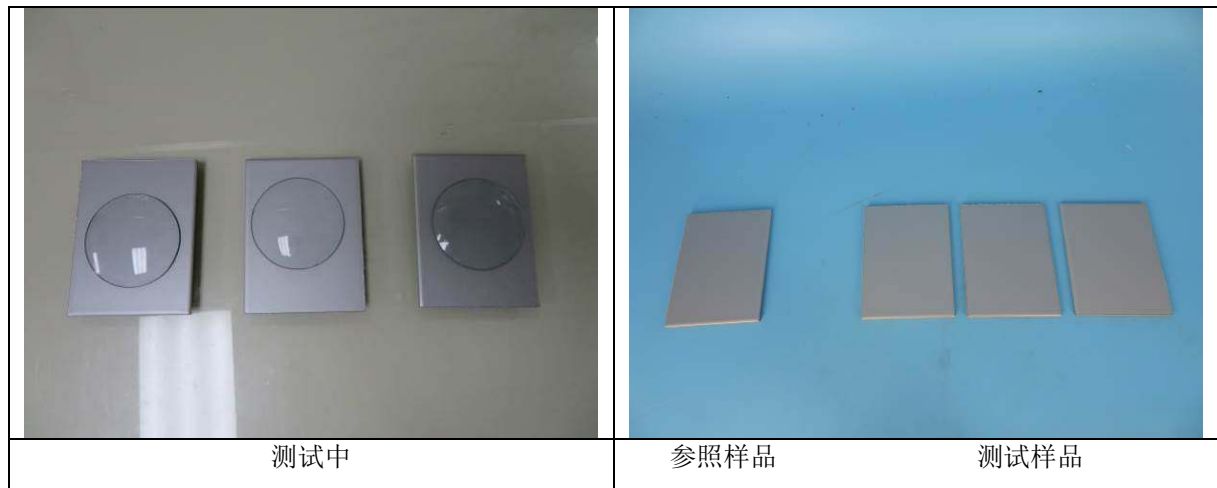
温度: 室温

接触时间: 24h

测试结果:

样品	测试结果
A	无可见变化

测试照片:



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## 测试报告

编号 : GZIN1807038061CM\_CN

日期 : 2018-08-02

页码 : 16 of 24

测试项目 10: 耐磨性能

样品描述: 见照片

测试方法: ASTM D968-17 方法 A

测试条件:

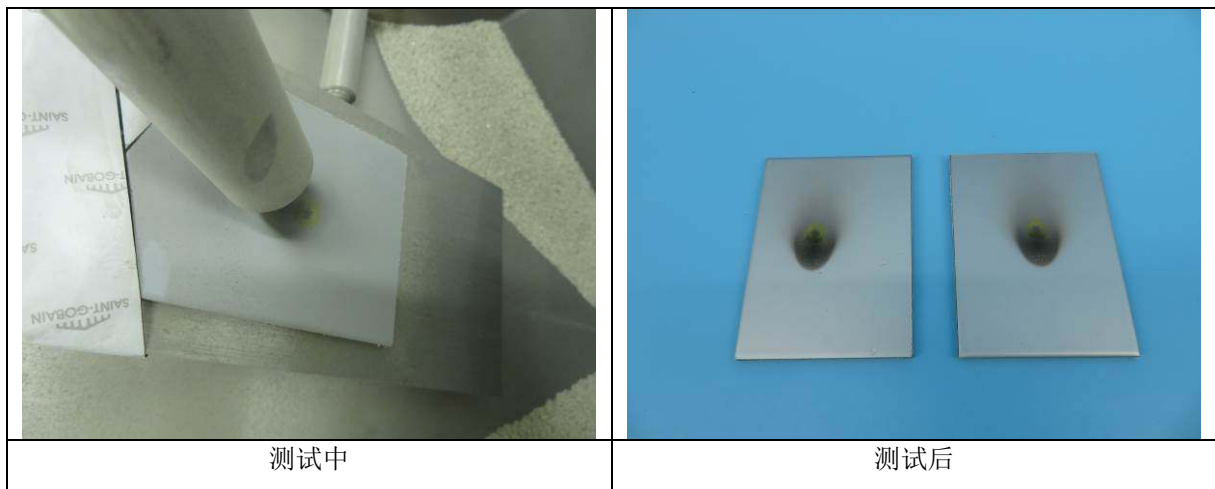
落砂速度: 2L/ (21-23.5) s

磨料: 石英砂

测试结果:

样品	磨耗系数
A	84.0L/mil

测试照片:



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## 测试报告

编号 : GZIN1807038061CM\_CN

日期 : 2018-08-02

页码 : 17 of 24

测试项目 11: 耐冲击性

样品描述: 见照片

测试方法: ASTM D2794-93(2010)

测试条件:

漆膜厚度: 30.2μm

样板厚度: 4.26mm

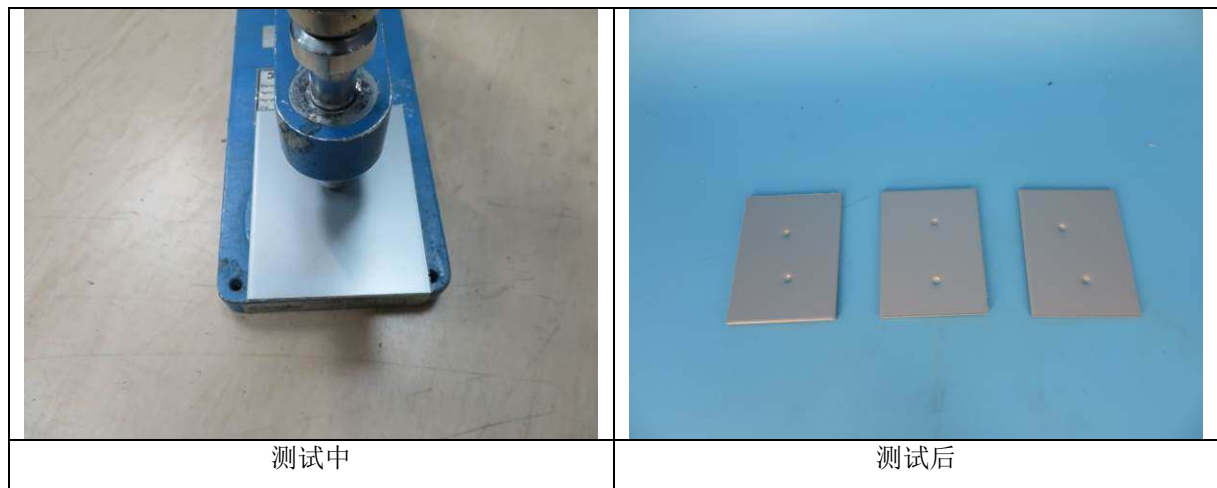
冲头直径: 15.9mm

冲击类型: 正冲

测试结果:

样品	冲击破坏点
A	90kg•cm

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## 测试报告

编号 : GZIN1807038061CM\_CN

日期 : 2018-08-02

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测试项目 12: 负荷变形温度

样品描述: 见照片

测试方法: 参照 ASTM D648-18 方法 B 和客户要求

测试条件:

试样: 128mm × 13.26mm × 4.25mm

传热介质: 硅油

升温速率: 120°C/h

负荷: 1.82MPa

跨距: 100mm

实验室环境条件: (23±2)°C, (50±5)%RH

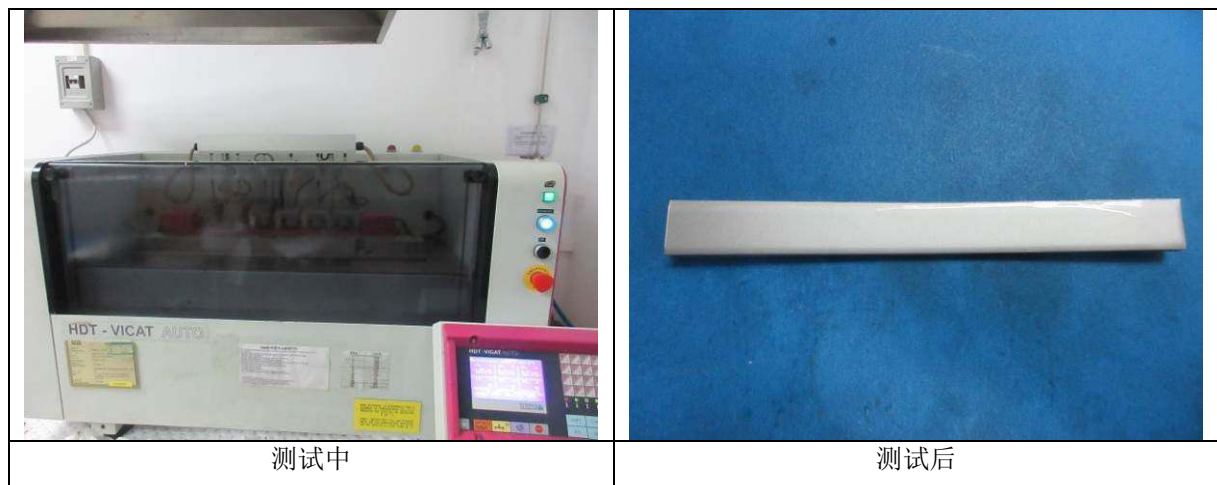
测试结果:

样品	测试项目	测试结果
A	负荷变形温度	103.1 °C

备注:

1. 贴膜面朝向负载。
2. 测试前撕掉试样的保护膜。

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## 测试报告

编号 : GZIN1807038061CM\_CN

日期 : 2018-08-02

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测试项目 13: 弯曲测试

样品描述: 见照片

测试方法: ASTM D790-17 程序 A

测试条件:

试样: 127mm×13.57mm×4.23mm

测试速度: 1.8mm/min

跨距: 67mm

实验室环境条件: (23±2)°C, (50±5)%RH

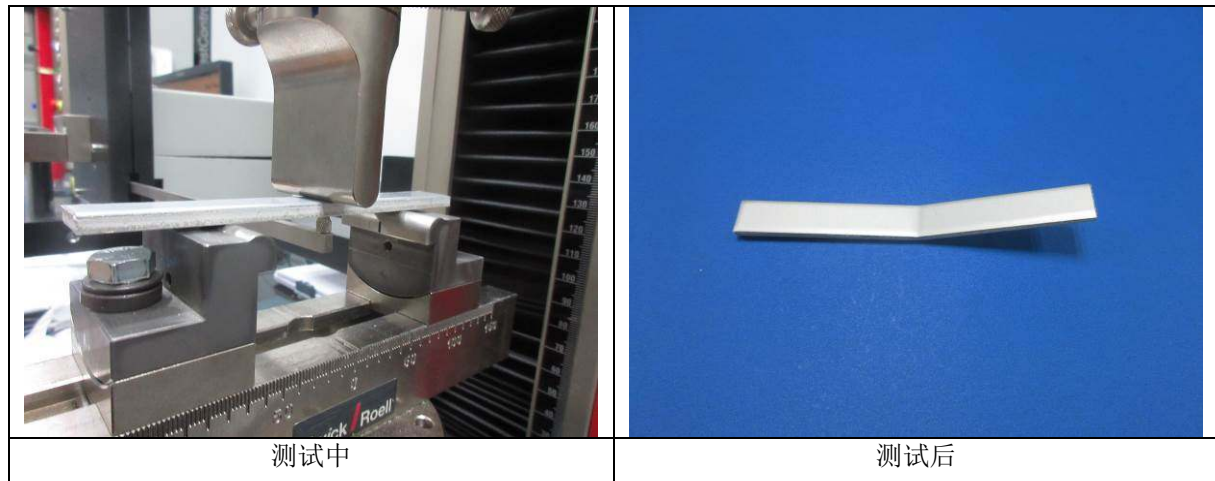
测试结果:

样品	测试项目	测试结果
A	弯曲强度	97.8MPa
	弯曲模量	16400MPa

备注:

1. 贴膜面朝向负载。
2. 测试前撕掉试样的保护膜。

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## 测试报告

编号 : GZIN1807038061CM\_CN  
 日期 : 2018-08-02  
 页码 : 20 of 24

测试项目 14: 单位面积质量

样品描述: 见照片

测试方法: 客户提供

测试条件:

试样: 101mm×101mm

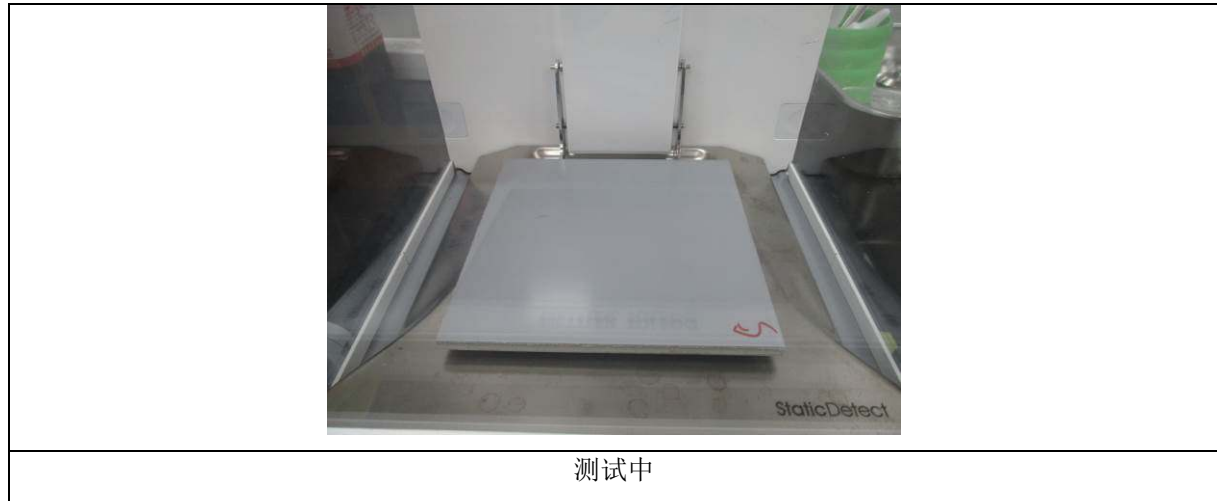
实验室环境条件: (23±2)°C, (50±5)%RH

测试结果:

测试项目	测试结果	
单位面积质量	样品 A	6134g/m <sup>2</sup>
	样品 B	4673g/m <sup>2</sup>

备注: 测试前撕掉试样的保护膜。

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## 测试报告

编号 : GZIN1807038061CM\_CN

日期 : 2018-08-02

页码 : 21 of 24

测试项目 15: 剥离强度

样品描述: 见照片

测试方法: ASTM D903-98(2017)

测试条件:

试样宽度: 25 mm

分离速度: 152.4 mm/min

实验室环境条件: 23 ± 2 °C, 50 ± 5 % RH

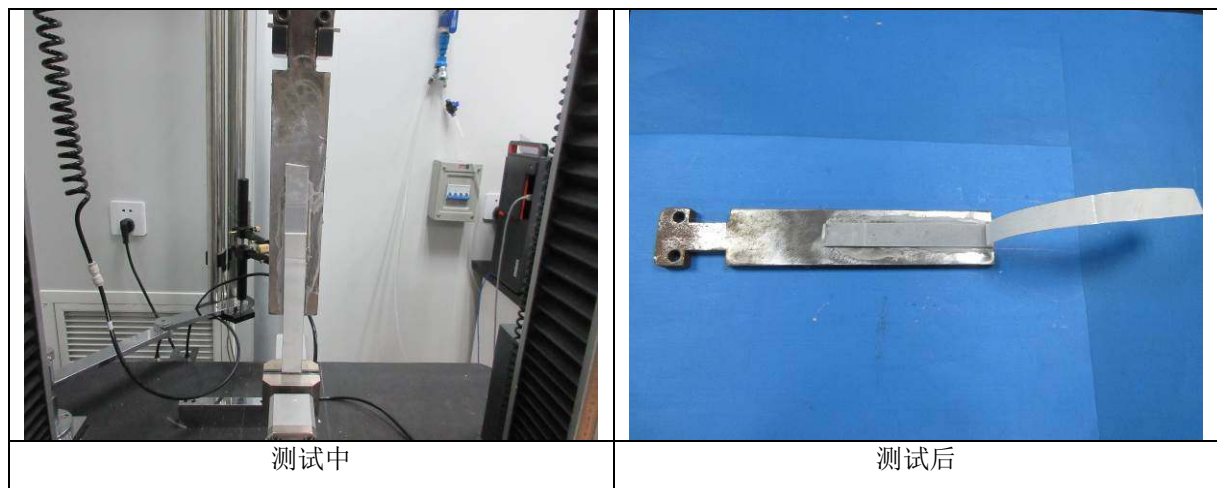
测试结果:

样品	测试项目	测试结果
A	剥离强度	1.20kgf/mm

备注:

1. 测试前撕掉试样的保护膜。
2. 测试试样从样品中截取。

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## 测试报告

编号 : GZIN1807038061CM\_CN

日期 : 2018-08-02

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测试项目 16: 剪切强度

样品描述: 见照片

测试方法: ASTM D732-17

测试条件:

试样厚度: 4.23mm

冲头直径: 25.0mm

测试速度: 1.3mm/min

实验室环境条件: (23±2)°C, (50±5)%RH

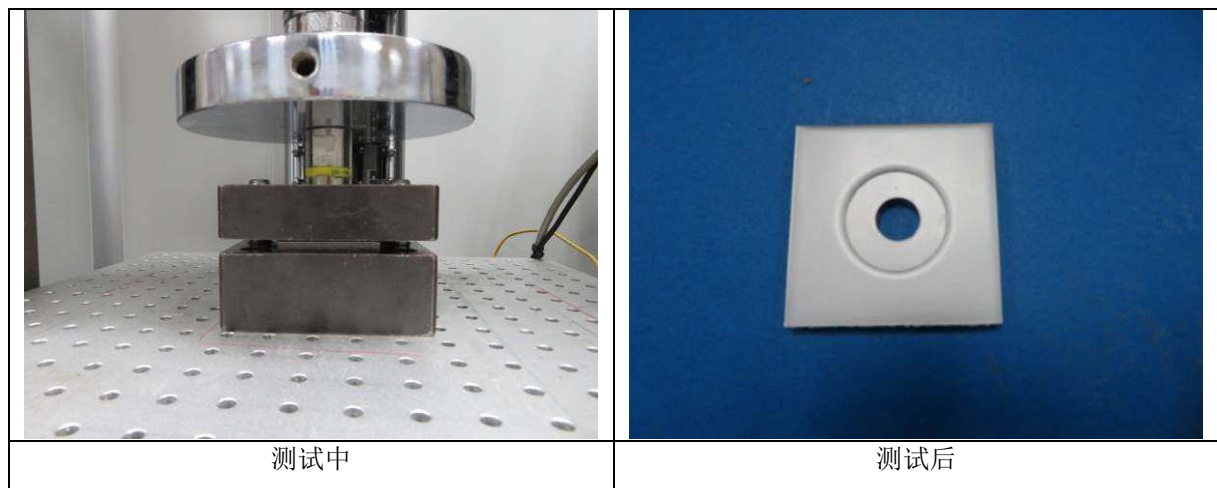
测试结果:

样品	测试项目	测试结果
A	剪切强度	26.8 MPa

备注:

- 1.测试前撕掉试样的保护膜。
- 2.测试试样从样品中截取。

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## 测试报告

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日期 : 2018-08-02

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测试项目 17: 拉伸测试

样品描述: 见照片

测试方法: ASTM D638-14

测试条件:

试样: 哑铃型

试样厚度: 4.23 mm

试样较窄部位宽度: 12.97mm

测试速度: 5 mm/min

夹头间距: 115 mm

实验室环境条件: 23 ± 2 °C, 50 ± 5 % RH

测试结果:

样品	测试项目	测试结果
A	拉伸强度	42.3MPa

备注: 测试前撕掉试样的保护膜。

测试照片:



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## 测试报告

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测试前



测试后

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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075080 e sgs.china@sgs.com