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检测
TESTING
CNAS L0167

检测报告

编号 : GZMR250400993701_CN

日期 : 2025-04-22

页码 : 1 of 26



客户名称: 佛山市电莱特科技有限公司

客户地址: 佛山市南海区狮山镇小塘新境工业区梁荣光厂房自编 A2 号之六 (住所申报)

样品名称 : 可带电作业绝缘防护罩

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。

SGS 参考号 : NJIN2504000544PL01

收样日期 : 2025-04-08

测试开始时间 : 2025-04-08

测试结束时间 : 2025-04-22

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
授权签名

霍洁梅

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	耐液体试剂	GB/T 11547-2008	详见结果	/
2	主成分定性分析	GB/T 6040-2019	聚碳酸酯 (PC)	/
3	邵氏硬度	GB/T 2411-2008	D/15:82	/
4	拉伸测试	GB/T 1040.2-2022	拉伸强度: 63.6MPa 拉伸断裂标称应变: 80%	/
5	简支梁冲击强度	GB/T 1043.1-2008	13kJ/m ² C(完全破坏)	/
6	负荷变形温度	GB/T 1634.2-2019	137°C	/
7	击穿电压	GB/T 1408.1-2016	34.33kV	/
8	体积电阻 & 体积电阻率	GB/T 31838.2-2019	详见结果	/
9	表面电阻 & 表面电阻率	GB/T 31838.3-2019	详见结果	/
10	光老化试验-氙灯辐射暴露	GB/T 16422.2-2022 循环 1	无可见变化	/
11	颗粒外观	SH/T 1541.1-2019	详见结果	/
12	灼热丝可燃性试验 (GWEPT)	GB/T 5169.11-2017	GWEPT: 750	/

备注: 合格: 达到要求

不合格: 未达到要求

/: 不下判定



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1. 测试项目: 耐液体试剂

样品描述: A-粒料

测试方法: GB/T 11547-2008

测试条件:

浸泡条件 1: 5% H_2SO_4 (m/m), 23°C, 168h→冲洗并擦干浸泡条件 2: 5% NaOH (m/m), 23°C, 168h→冲洗并擦干

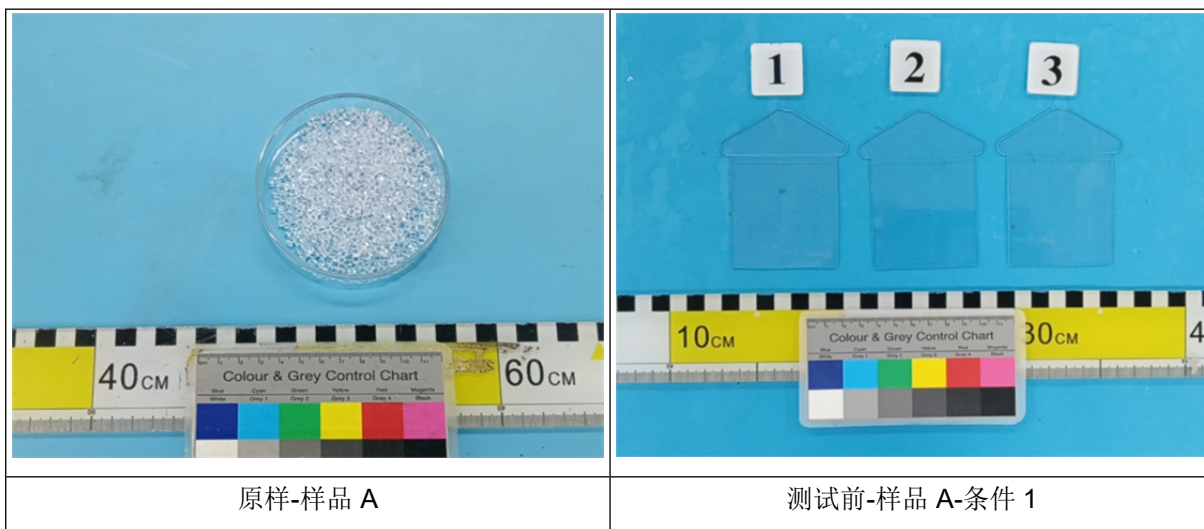
实验室环境条件: (23 ± 2) °C, (50 ± 5) %RH

测试结果:

测试项目	测试结果	
耐液体试剂	条件 1	无可见变化
	条件 2	无可见变化

备注: 测试试样为注塑成型。

测试照片:



原样-样品 A

测试前-样品 A-条件 1

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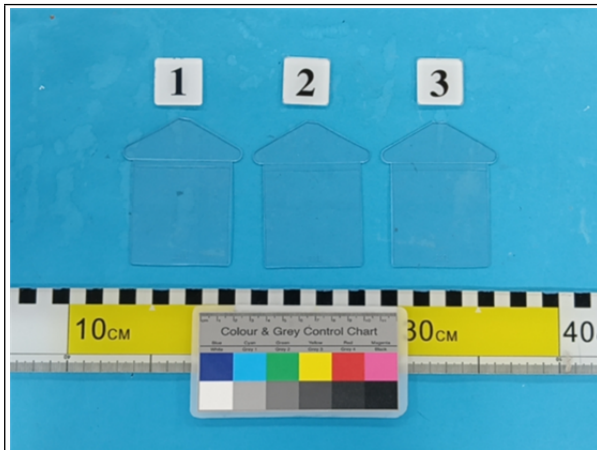
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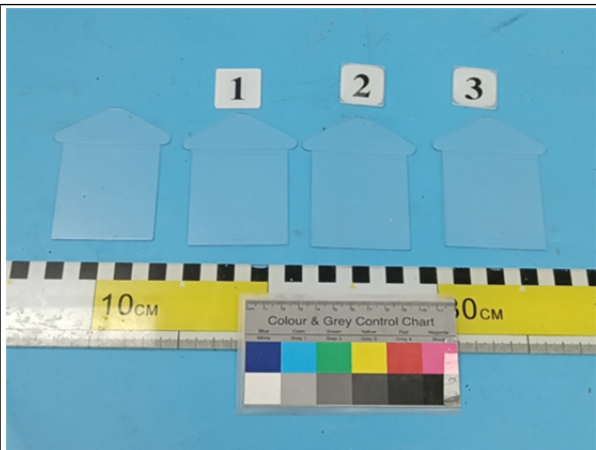
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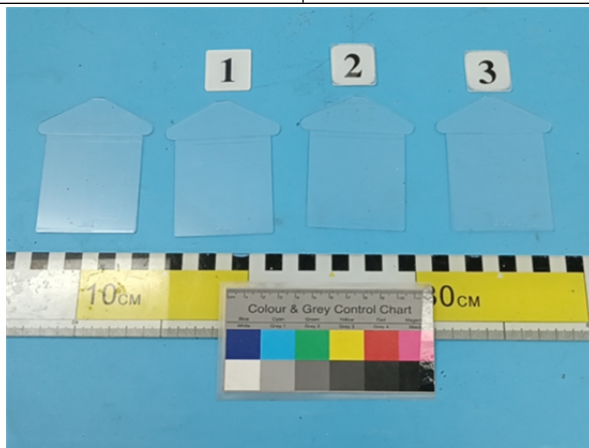


测试前-样品 A-条件 2



参照样品

测试后-样品 A-条件 1



参照样品

测试后-样品 A-条件 2

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2. 测试项目：主成分定性分析

样品描述：A-粒料

测试方法：GB/T 6040-2019

测试条件：

制样方法：ATR

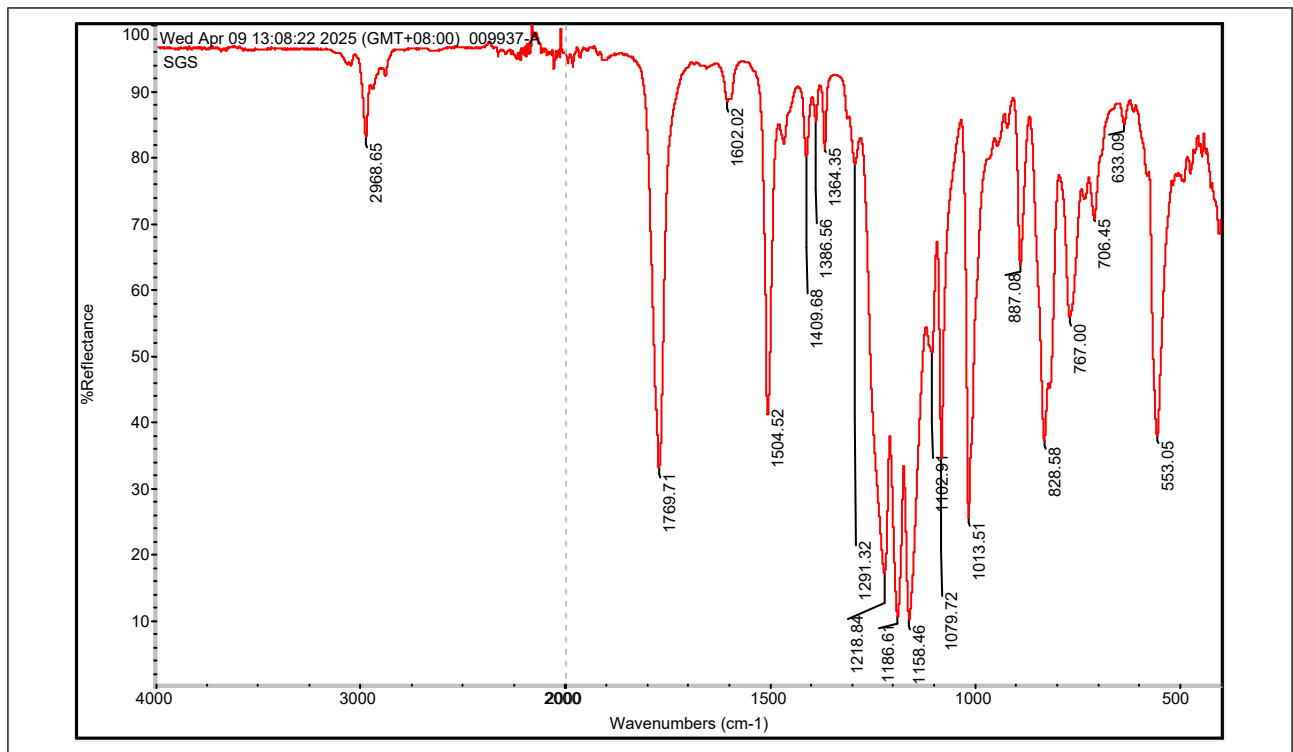
测试结果：

样品 A

测试项目	测试结果
主成分	聚碳酸酯 (PC)

附件

样品 A



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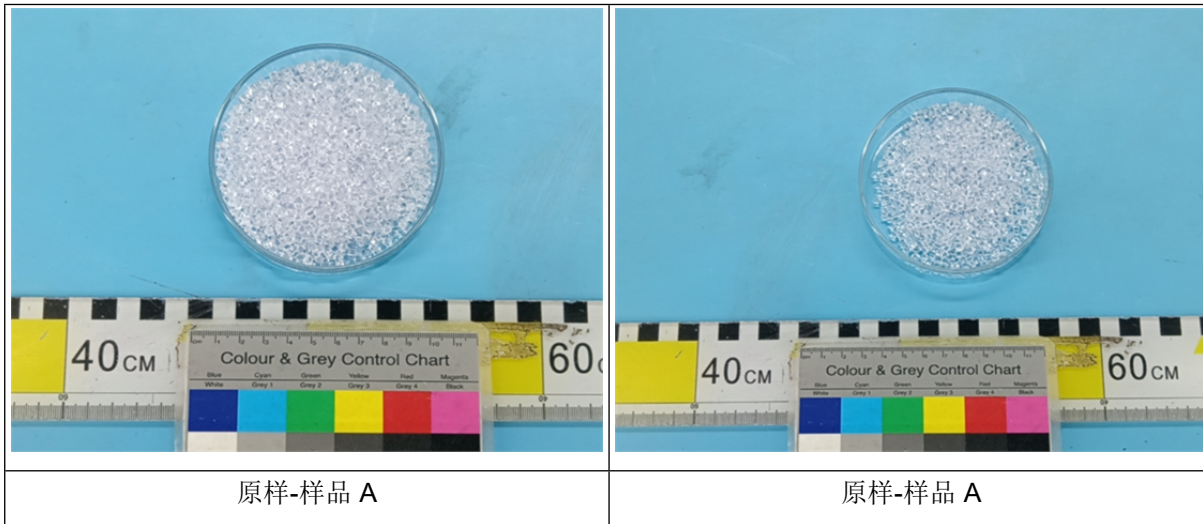
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测试照片:



设备信息:

设备	型号	设备编号	校准日期	下次校准日期
傅立叶变换红外光谱仪	Nicolet iS50	GZMR-PL-E216	2024-10-11	2025-10-10



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3. 测试项目: 邵氏硬度

样品描述: A-粒料

测试方法: GB/T 2411-2008

测试条件:

试样厚度: 4.22 mm

硬度计类型: Shore D

读数时间: 15 s

实验室环境条件: (23 ± 2) °C, (50 ± 5) %RH

测试结果:

样品 A

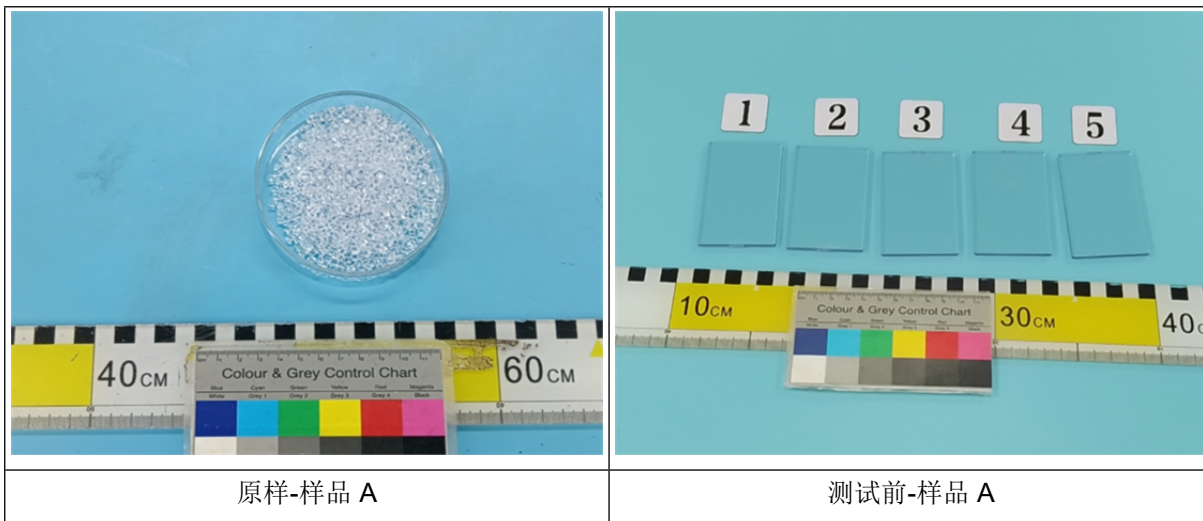
测试项目	测试结果
邵氏硬度	D/15:82

备注:

1. D/15:X 是指硬度计的类型是 D 型; 读数时间是 15 s; 硬度值是 X。

2. 测试试样为注塑成型。

测试照片:

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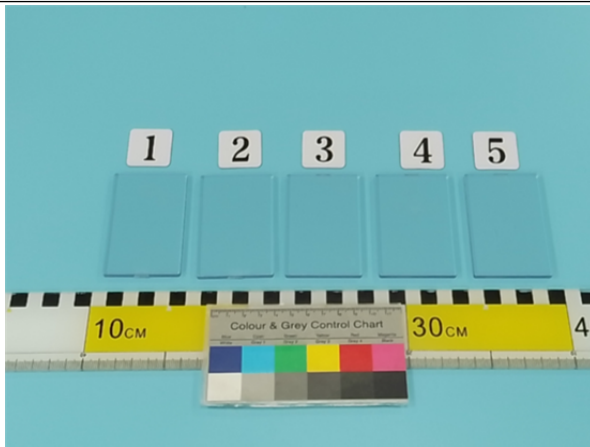
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测试后-样品 A

设备信息:

设备	型号	设备编号	校准日期	下次校准日期
多功能硬度计	Digitest II	GZMR-PL-E156	2024-04-25	2025-04-24

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4. 测试项目: 拉伸测试

样品描述: A-粒料

测试方法: GB/T 1040.2-2022

测试条件:

试样类型: 1A 型

试样厚度: 4.04 mm

测试速度: 50 mm/min

标距: 75 mm

初始夹具间距: 115 mm

实验室环境条件: (23 ± 2) °C, (50 ± 5) %RH

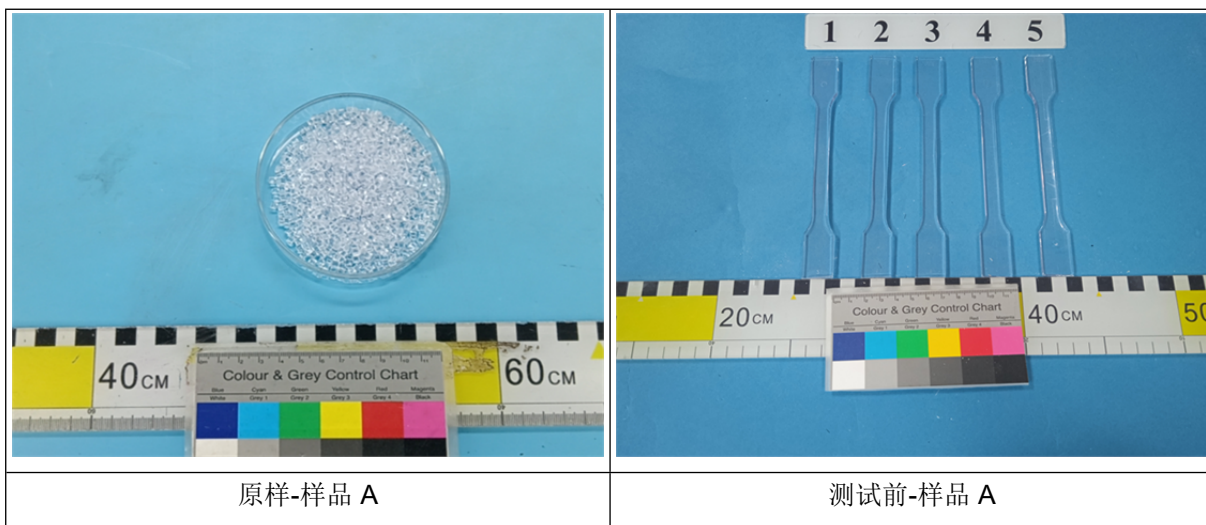
测试结果:

样品 A

测试项目	测试结果
拉伸强度	63.6MPa
拉伸断裂标称应变	80%

备注: 测试试样为注塑成型。

测试照片:



原样-样品 A

测试前-样品 A

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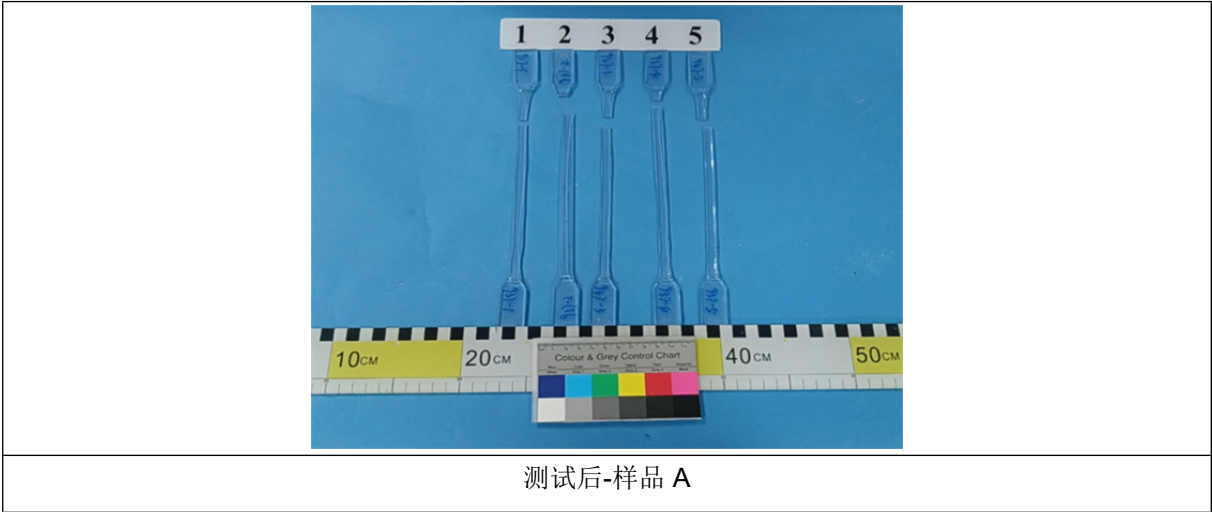
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设备信息:

设备	型号	设备编号	校准日期	下次校准日期
自动化电子万能材料试验机	Z020	GZMR-PL-E399	2025-03-20	2026-03-19



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检测报告

编号 : GZMR250400993701_CN

日期 : 2025-04-22

页码 : 11 of 26

5. 测试项目: 简支梁冲击强度

样品描述: A-粒料

测试方法: GB/T 1043.1-2008

测试条件:

试样类型: GB/T 1043.1/1eA (缺口制备: 机械加工)

试样厚度: 4.03 mm

摆锤能量: 2J

冲击速度: 2.9m/s

跨距: 62 mm

实验室环境条件: (23 ± 2) °C, (50 ± 5) %RH

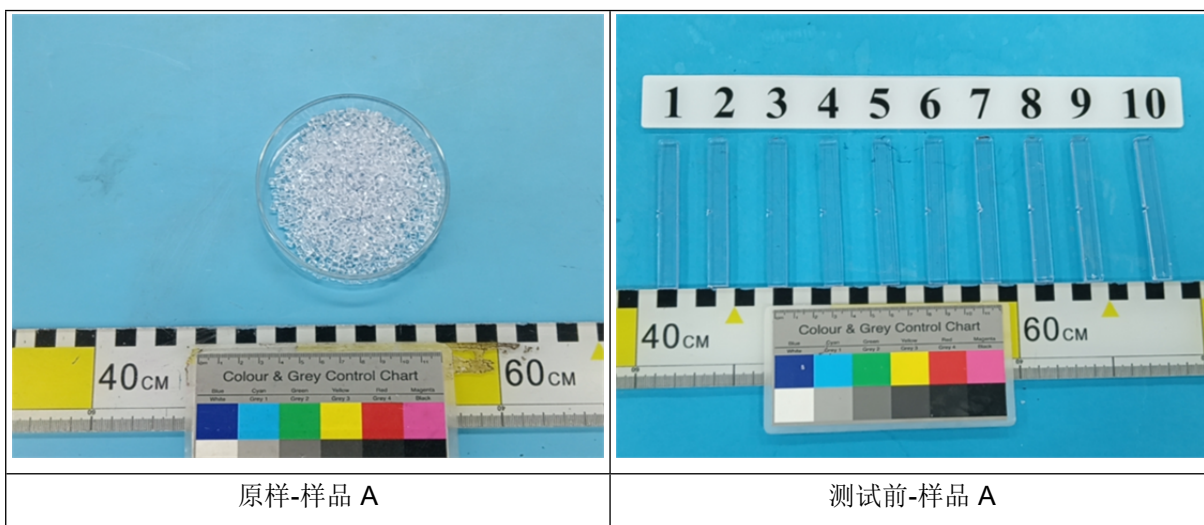
测试结果:

样品 A

测试项目	测试结果
简支梁缺口冲击强度	13kJ/m ² C(完全破坏)

备注: 测试试样为注塑成型。

测试照片:

SGS-CSTC
Guangzhou Branch Testing Services & Reliability Laboratory

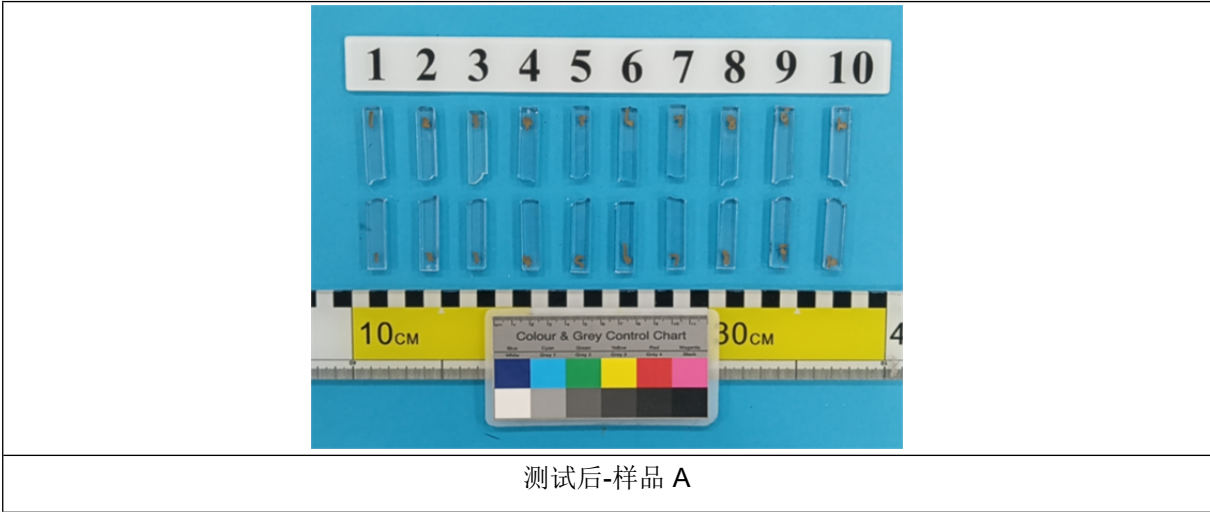
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检测报告

编号 : GZMR250400993701_CN
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设备信息:

设备	型号	设备编号	校准日期	下次校准日期
摆锤冲击仪	HIT50P	GZMR-PL-E283	2025-03-20	2026-03-19



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检测报告

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日期 : 2025-04-22

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6. 测试项目: 负荷变形温度

样品描述: A-粒料

测试方法: GB/T 1634.2-2019

测试条件:

测试方法: B

 $T_0.45$

试样: 80 mm x 9.99 mm x 4.02 mm

传热介质: 硅油

升温速率: 120 °C/h

跨距: 64 mm

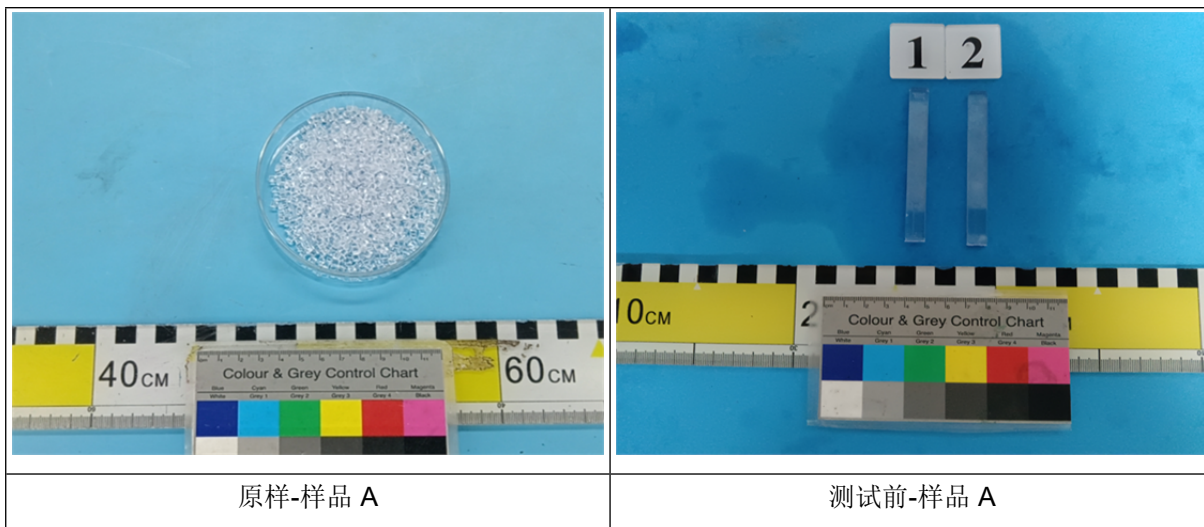
测试结果:

样品 A

测试项目	测试结果
负荷变形温度	137°C

备注: 测试试样为注塑成型。

测试照片:

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Guangzhou Branch Testing Services & Reliability Laboratory

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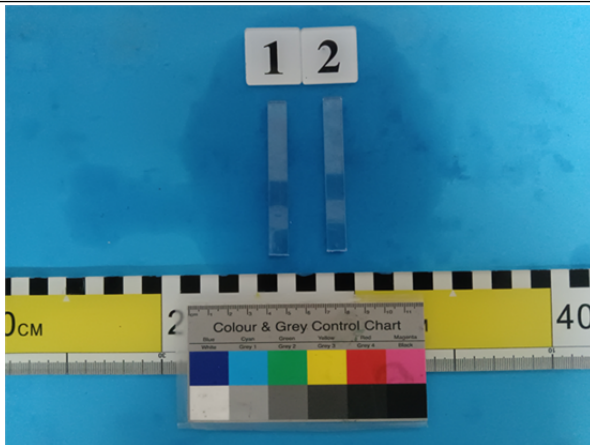
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检测报告

编号 : GZMR250400993701_CN

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测试后-样品 A

设备信息:

设备	型号	设备编号	校准日期	下次校准日期
热变形维卡测定仪 (20~300℃)	6970.000	GZMR-PL-E091	2025-03-19	2026-03-18

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Guangzhou Branch Testing Services & Reliability Laboratory

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检测报告

编号 : GZMR250400993701_CN

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7. 测试项目: 击穿电压

样品描述: A-粒料

测试方法: GB/T 1408.1-2016

测试条件:

预处理条件: (23±2) °C, (50±5) %RH, 24 h

周围媒质: (23±2) °C变压器油

测试电极: 等直径电极(上下电极 $\phi 25$ mm)

电压类型: 交流 50 Hz

升压方式: 快速升压, 2000V/s

实验室环境条件: (23 ± 2) °C, (50 ± 5) %RH

测试结果:

样品 A

试样	厚度, mm	击穿电压, kV
1	1.06	32.96
2	1.06	34.55
3	1.07	35.54
4	1.06	34.33
5	1.05	32.96
中值	/	34.33

备注: 测试试样为注塑成型。

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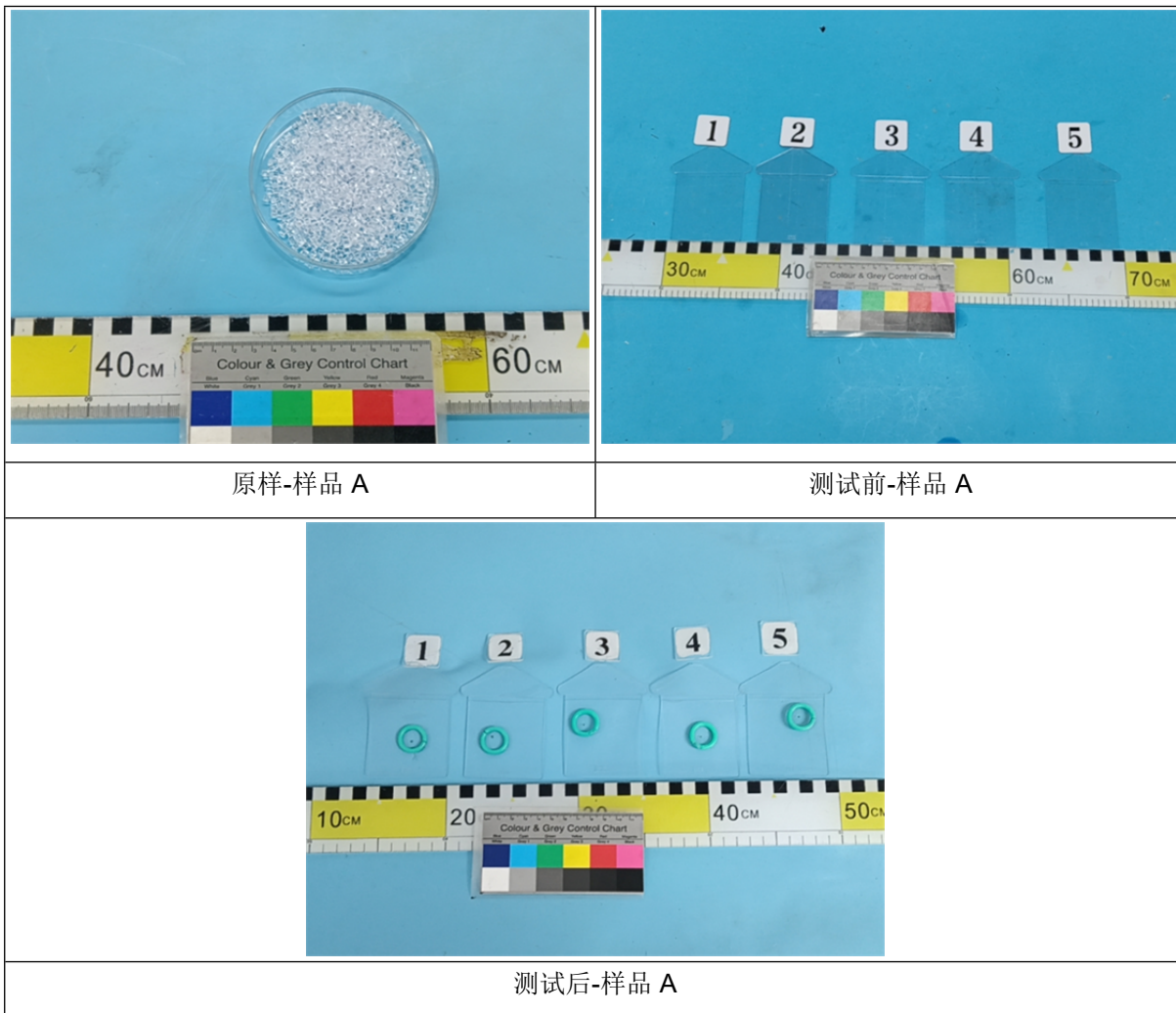
检测报告

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测试照片：



设备信息：

设备	型号	设备编号	校准日期	下次校准日期
微机控制电压击穿 试验仪	DJC-100KV	GZMR-PL-E154- 01	2024-05-30	2025-05-29
数显千分尺	MDC-25MX	GZMR-PL-E048- 08	2025-04-03	2026-04-02

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检测报告

编号 : GZMR250400993701_CN

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8. 测试项目: 体积电阻 & 体积电阻率

样品描述: A-粒料

测试方法: GB/T 31838.2-2019

测试条件:

预处理条件: (23±2) °C, (50±5) %RH, 96 h

测试电极: D₁=50 mm, D₂=70 mm

测试电压: 1000 Vdc

测试时间: 1 min

实验室环境条件: (23 ± 2) °C, (50 ± 5) %RH

测试结果:

样品 A

试样	厚度, mm	体积电阻, Ω	体积电阻率, Ω·m
1	2.02	5.65E+14	7.90E+14
2	2.02	2.19E+14	3.06E+14
3	1.99	2.71E+14	3.85E+14
4	1.99	7.49E+14	1.06E+15
5	2.02	2.67E+14	3.74E+14
中值	/	2.71E+14	3.85E+14

备注:

1. 测试试样为注塑成型。

2. E+n 是指 10ⁿ, 例如 1.00E+03 等同 1.00 × 10³。SGS-CSTC
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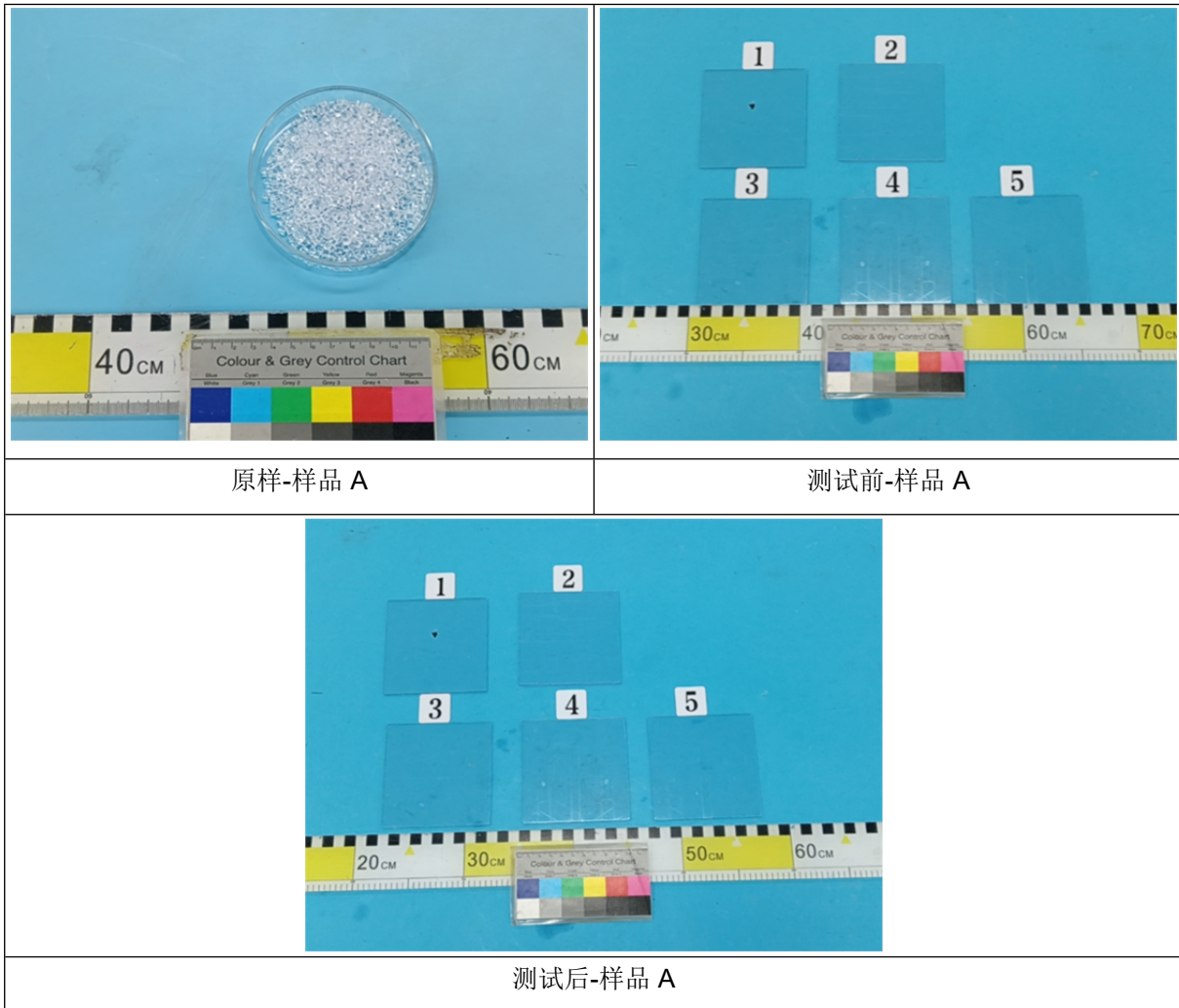
检测报告

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测试照片：



原样-样品 A

测试前-样品 A

测试后-样品 A

设备信息：

设备	型号	设备编号	校准日期	下次校准日期
高阻计	4339B	GZMR-PL-E150	2025-03-19	2026-03-18
数显千分尺	MDC-25MX	GZMR-PL-E048-08	2025-04-03	2026-04-02

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Guangzhou Branch Testing Services & Reliability Laboratory

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检测报告

编号 : GZMR250400993701_CN

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页码 : 19 of 26

9. 测试项目: 表面电阻 & 表面电阻率

样品描述: A-粒料

测试方法: GB/T 31838.3-2019

测试条件:

预处理条件: (23±2) °C, (50±5) %RH, 96 h

测试电极: D1=50 mm, D2=70 mm

测试电压: 500 Vdc

测试时间: 1 min

实验室环境条件: (23 ± 2) °C, (50 ± 5) %RH

测试结果:

样品 A

试样	表面电阻, Ω	表面电阻率, Ω/sq
1	5.48E+15	1.03E+17
2	1.42E+15	2.68E+16
3	1.09E+15	2.05E+16
4	1.36E+15	2.56E+16
5	1.46E+15	2.75E+16
中值	1.42E+15	2.68E+16

备注:

1. 测试试样为注塑成型。

2. E+n 是指 10^n , 例如 1.00E+03 等同 1.00×10^3 。SGS-CSTC
Guangzhou Branch Testing Services & Reliability Laboratory

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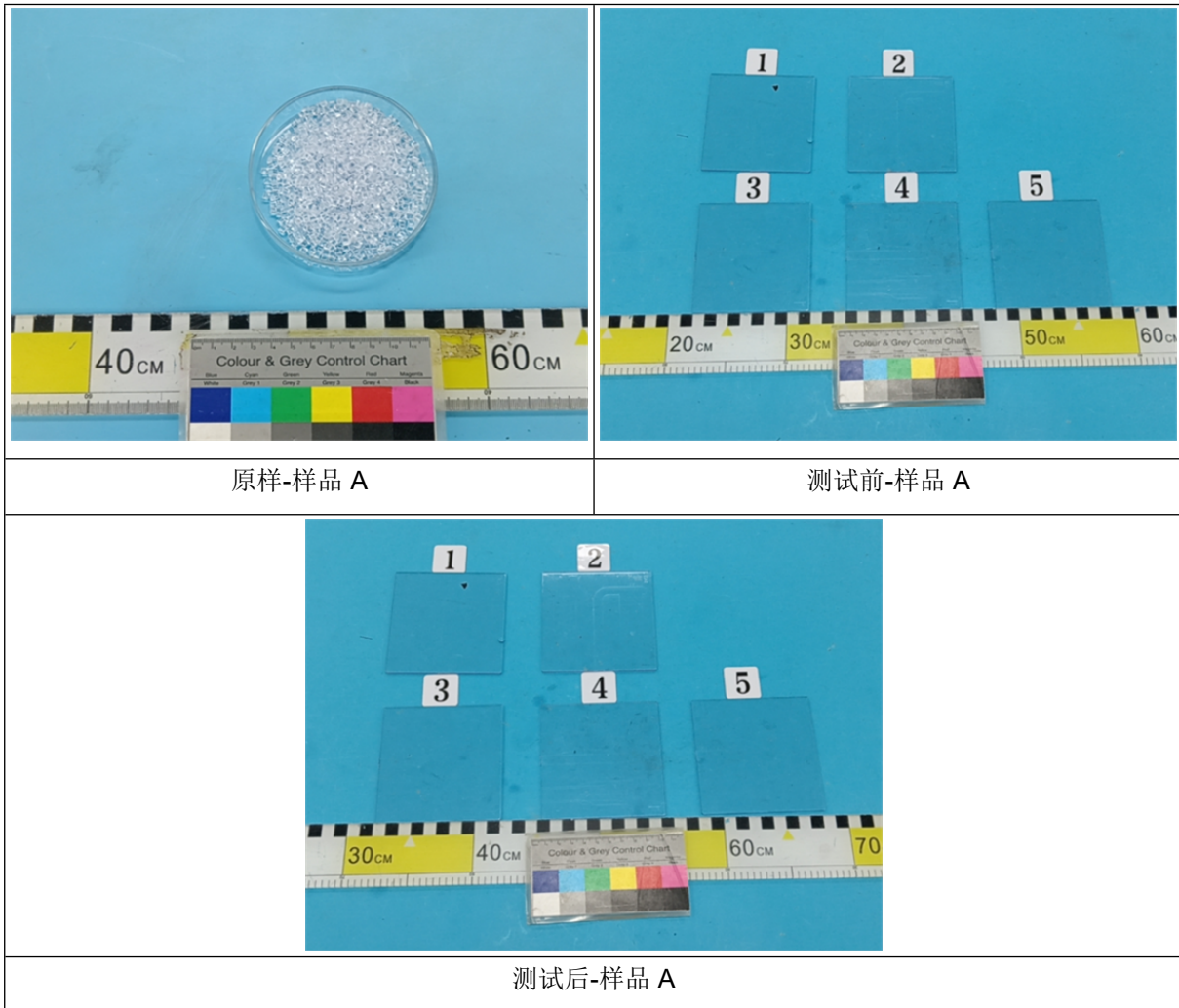
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测试照片:



设备信息:

设备	型号	设备编号	校准日期	下次校准日期
高阻计	4339B	GZMR-PL-E150	2025-03-19	2026-03-18



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检测报告

编号 : GZMR250400993701_CN

日期 : 2025-04-22

页码 : 21 of 26

10. 测试项目: 光老化试验-氙灯辐射暴露

样品描述: A-粒料

测试方法: GB/T 16422.2-2022 循环 1

测试条件:

试验循环:

辐照度: $(0.51 \pm 0.02) \text{W}/(\text{m}^2 \cdot \text{nm}) @ 340 \text{nm}$ 光照: 102min, 黑标温度: $(65 \pm 3)^\circ\text{C}$, 箱体温度: $(38 \pm 3)^\circ\text{C}$, 相对湿度: $(50 \pm 10)\% \text{RH}$

光照和喷淋: 18min

滤镜: Boro/Boro

暴露时间: 168h

实验室环境条件: $(23 \pm 2)^\circ\text{C}$, $(50 \pm 5)\% \text{RH}$

测试结果:

样品 A

测试项目	外观
光老化试验-氙灯辐射暴露	无可见变化

备注: 测试试样为注塑成型。



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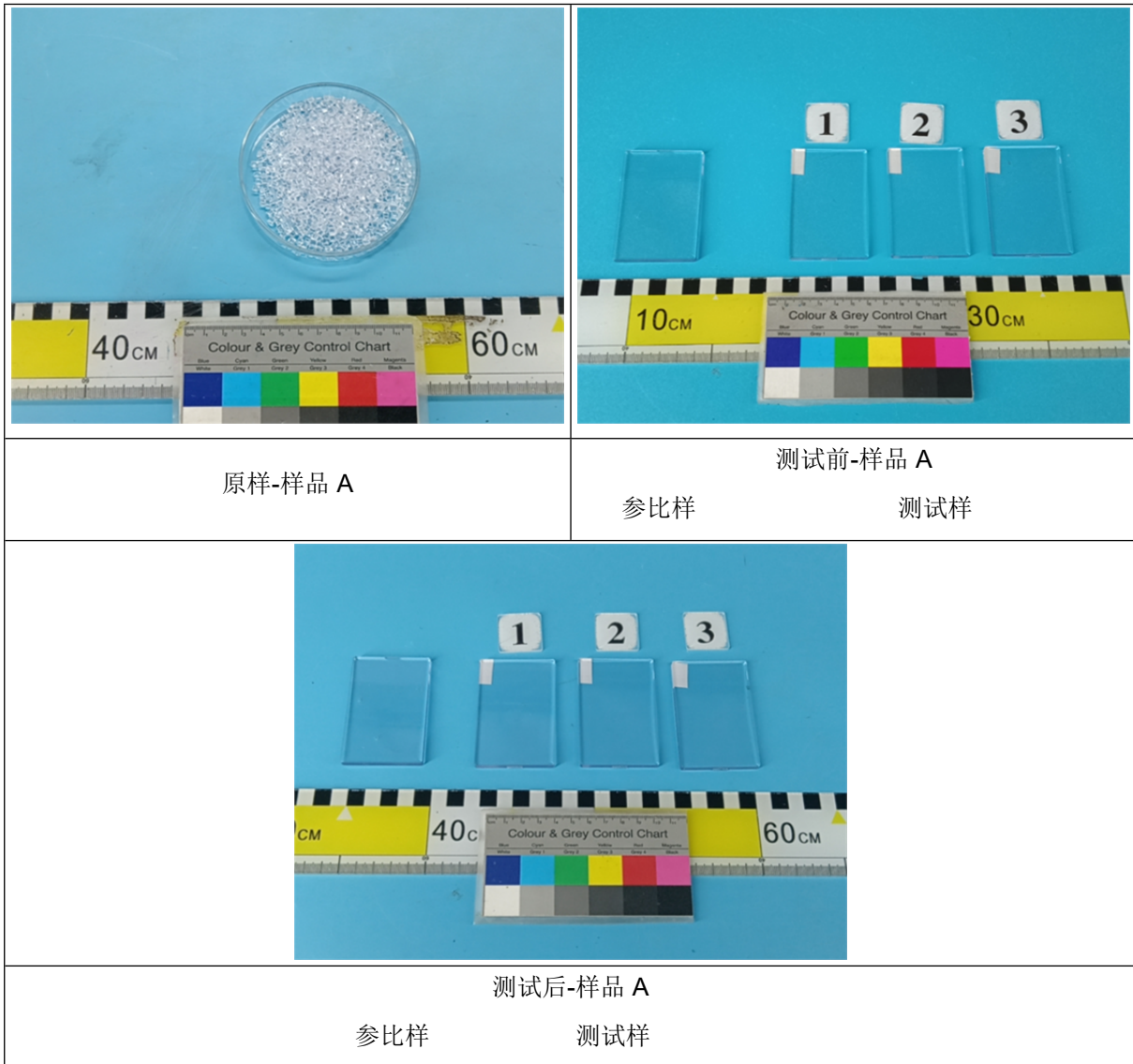
检测报告

编号 : GZMR250400993701_CN

日期 : 2025-04-22

页码 : 22 of 26

测试照片:



设备信息:

设备	型号	设备编号	校准日期	下次校准日期
氙弧灯日晒老化机	Ci5000	GZMR-AG-E169	2024-05-21	2025-05-20

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检测报告

编号 : GZMR250400993701_CN

日期 : 2025-04-22

页码 : 23 of 26

11. 测试项目: 颗粒外观

样品描述: A-粒料

测试方法: SH/T 1541.1-2019

测试条件:

用 A 筛, B 筛测试

试样总质量: 1000g

实验室环境条件: (23 ± 2) °C, (50 ± 5) %RH

测试结果:

样品 A

测试项目	测试结果
黑粒	0 个/kg
色粒	0 个/kg
蛇皮粒	0 个/kg
拖尾粒	0 个/kg
黑斑粒	0 个/kg
杂质	0 个/kg
带泡粒子	198 个/kg
大粒	0g/kg
小粒	0g/kg
絮状物	0g/kg

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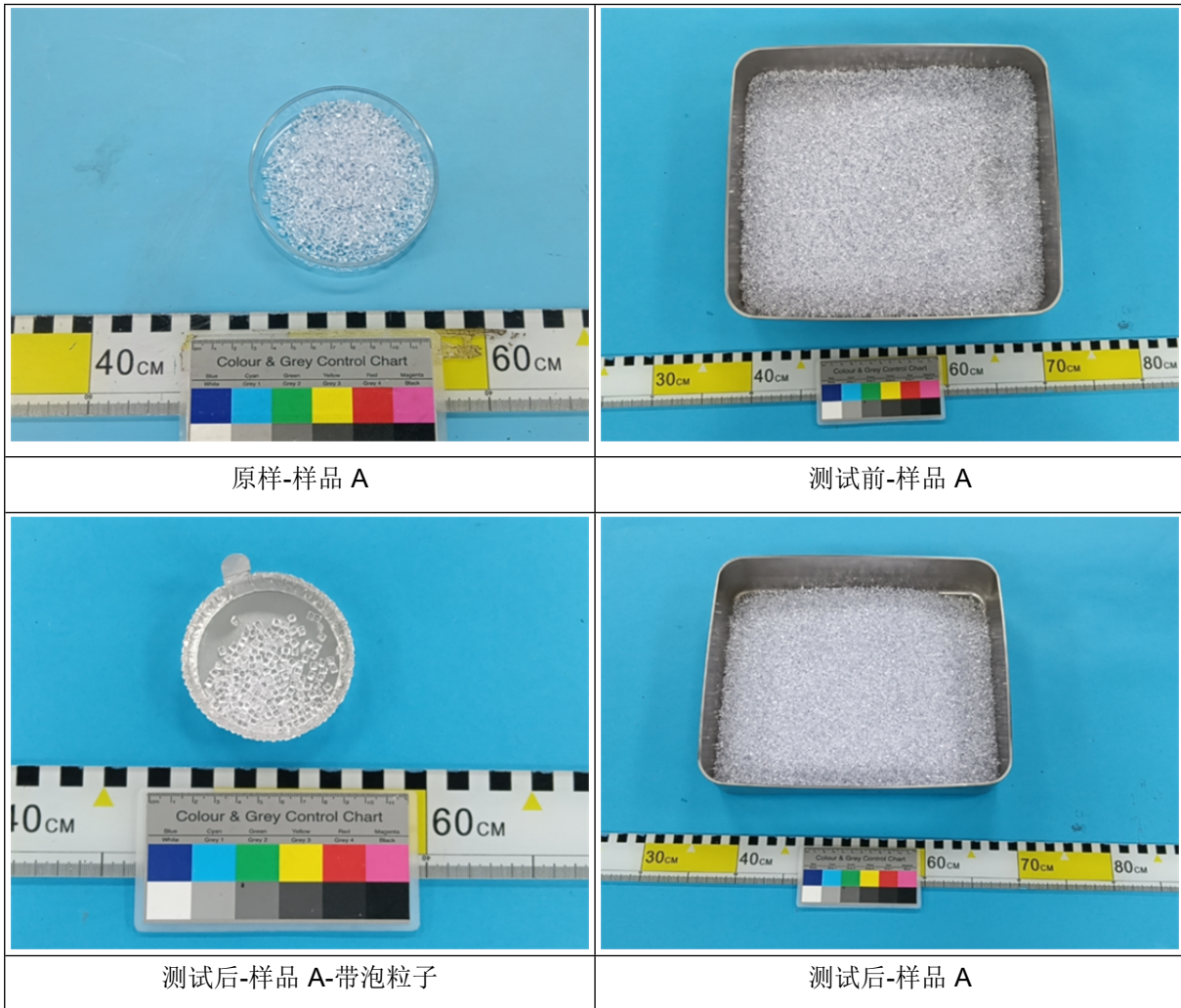
检测报告

编号 : GZMR250400993701_CN

日期 : 2025-04-22

页码 : 24 of 26

测试照片:



设备信息:

设备	型号	设备编号	校准日期	下次校准日期
电子天平	JJ8000A	GZMR-PL-E079	2025-03-19	2026-03-18

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检测报告

编号 : GZMR250400993701_CN

日期 : 2025-04-22

页码 : 25 of 26

12. 测试项目: 灼热丝可燃性试验 (GWEPT)

样品描述: A-粒料

测试方法: GB/T 5169.11-2017

测试条件:

预处理条件: (23±2) °C, (50±5) %RH, 24 h

施加灼热丝时间 t_A : 30 s

实验室环境条件: (23 ± 2) °C, (50 ± 5) %RH

测试结果:

样品 A

试样 编号	测试温度 (°C)	t_E (s)	试验观察		
			试样是否起燃	试样是否燃尽	铺底层是否起燃
1	750	0.0	否	否	否
GWEPT: 750					

备注:

1) t_E -从灼热丝顶端施加到试样开始, 至所有火焰熄灭的持续时间, 熄灭可能在施加期间或之后。

2) 试样若在试验温度 T °C 下满足以下条件, 则认为其通过了 T °C 的灼热丝成品试验:

a) 没有起燃; 或者

b) 发生了起燃, 同时满足以下所有情况:

i. 试验的火焰或灼热在移开灼热丝后的 30 s 内熄灭, 即 $t_E \leq t_A + 30$ s; 和

ii. 位于试样下方的铺底层未起燃。

3) 测试试样为注塑成型。

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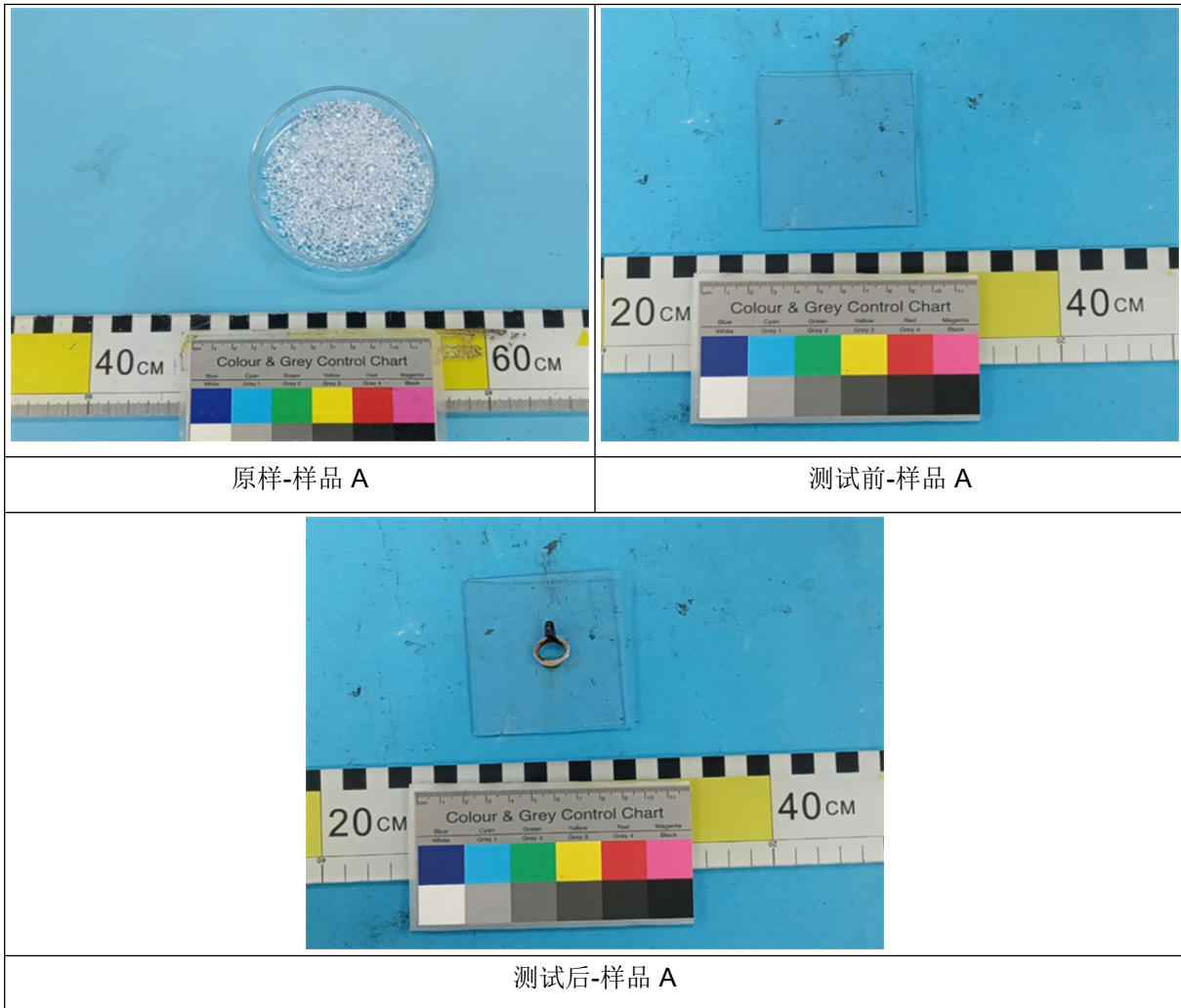
检测报告

编号 : GZMR250400993701_CN

日期 : 2025-04-22

页码 : 26 of 26

测试照片:



设备信息:

设备	型号	设备编号	校准日期	下次校准日期
灼热丝试验仪	ZLT—GTR	GZMR-PL-E407	2024-07-11	2025-07-10

***** 报告结束 *****

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