

测试报告

编号 : TJIN2007009852MR_CN

日期 : 2020-08-11

页码 : 1 of 19

扫码查看在线报告



TJIN2007009852MR

客户名称: 德州市嘉盛橡塑制品有限公司
客户地址: 山东省德州市经济开发区百得路 1397 号院内 4 号-5 号车间

样品名称 : 超高分子量聚乙烯板
生产商 : 德州市嘉盛橡塑制品有限公司
材质牌号 : 超高分子量聚乙烯树脂

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 : TJIN2007009769PS; GZIN2008041894MR_CN
收样日期 : 2020-07-28
测试开始时间 : 2020-07-28
测试结束时间 : 2020-08-11
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(天津)有限公司
授权签名

高锴

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 | 压缩测试 | GB/T 1041-2008 | 10%应变压缩应力: 27.8MPa | / |
| 2 | 密度 | GB/T 1033.1-2008 方法 A | 0.936 g/cm ³ | / |
| 3 | 弯曲测试 | GB/T 9341-2008 | 弯曲强度 21.8 MPa | / |
| 4 | 邵氏硬度 | GB/T 2411-2008 | D/15:56 | / |
| 5 | 拉伸测试 | GB/T 1040.1-2018 & GB/T 1040.2-2006 | 拉伸强度 32.8 MPa | / |
| | | | 断裂拉伸应变 240% | |
| 6 | 吸水率 | GB/T 1034-2008 和客户要求 | 0.01% | / |
| 7 | 耐旋转磨耗 | GB/T 5478-2008 | 重量损失: 1.9mg | / |
| 8 | 简支梁缺口冲击强度 | GB/T 1043.1-2008 | 60kJ/m ² P(部分破坏) | / |

备注: 合格: 达到要求
 不合格: 未达到要求
 /: 不下判定



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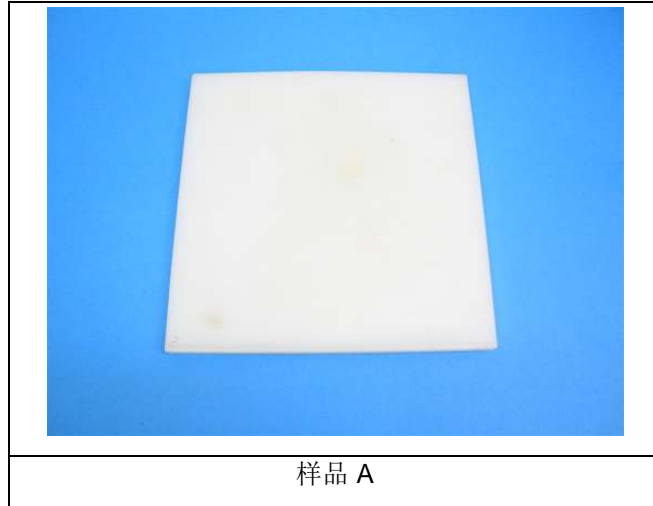
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1. 测试项目: 压缩测试

样品描述: 塑料件

测试方法: GB/T 1041-2008

测试条件:

试样: B 型

试样厚度: 4.09mm

测试速度: 5 mm/min

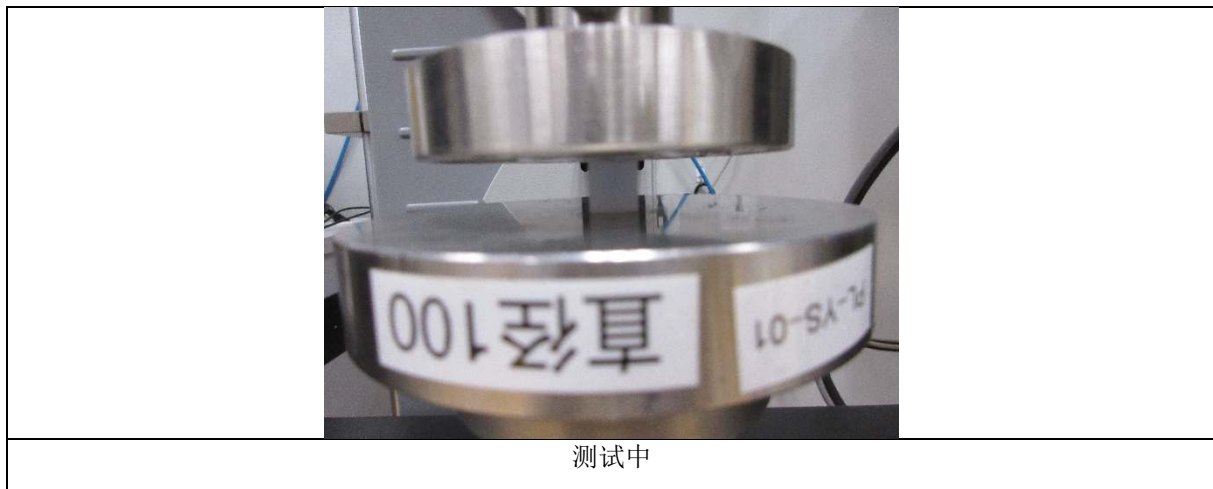
实验室环境条件: 23±2°C, 50±5%RH

测试结果:

| 测试项目 | 测试结果 |
|-----------|---------|
| 10%应变压缩应力 | 27.8MPa |

备注: 测试试样从样品中截取。

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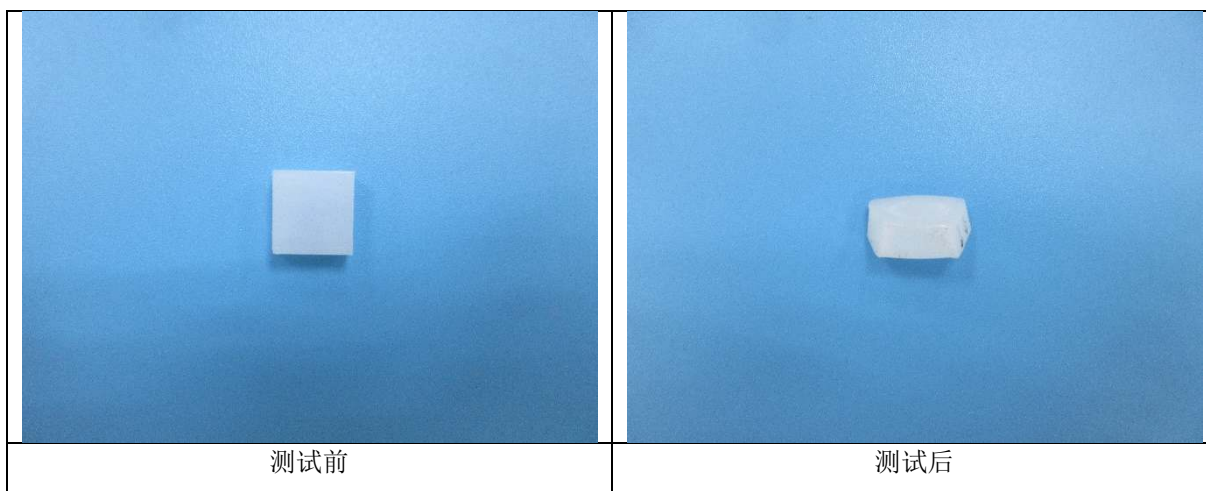
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| 万能材料试验机 | Zwick Z020TH | POL-202 | 2019-11-04 | 2020-11-03 |



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2. 测试项目: 密度

样品描述: 塑料件

测试方法: GB/T 1033.1-2008 方法 A

测试条件:

无水乙醇, $23 \pm 0.5 \text{ }^\circ\text{C}$

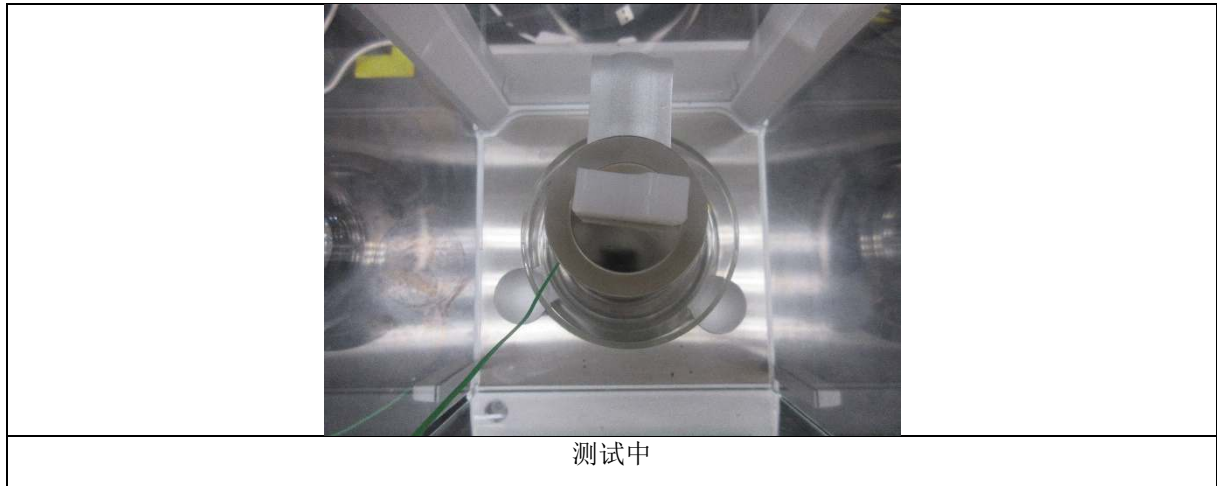
实验室环境条件: $23 \pm 2 \text{ }^\circ\text{C}$, $50 \pm 5 \text{ \% RH}$

测试结果:

| 测试项目 | 测试结果 |
|------|-------------------------|
| 密度 | 0.936 g/cm ³ |

备注: 测试试样从样品中裁取。

测试照片:



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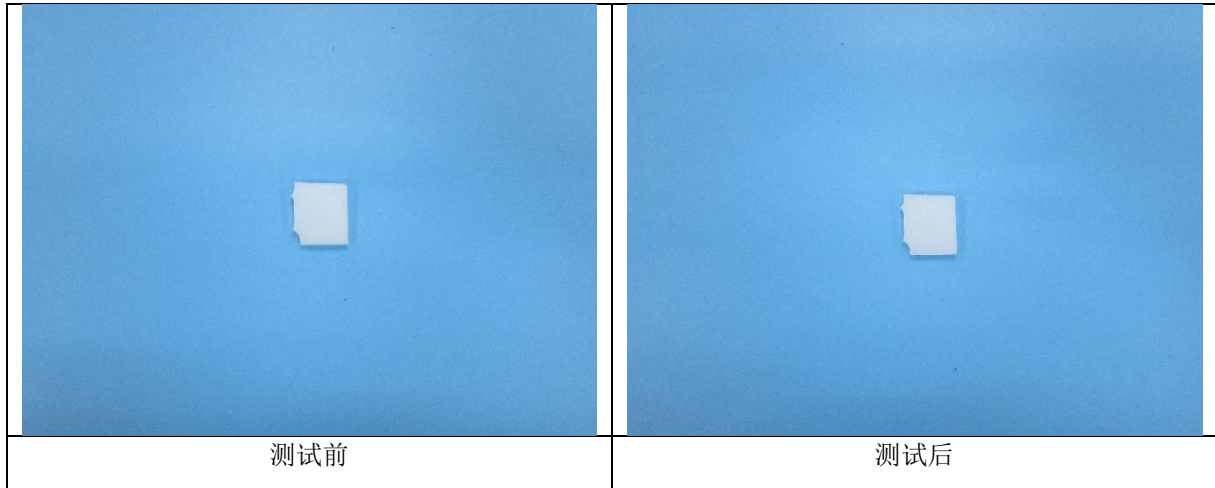
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| 电子天平 | MS204TS/02 | POL-193 | 2020-05-08 | 2021-05-07 |



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3. 测试项目: 弯曲测试

样品描述: 塑料件

测试方法: GB/T 9341-2008

测试条件:

试样: 80.2mm×9.92mm×4.52mm

测试速度: 2mm/min

跨距: 72mm

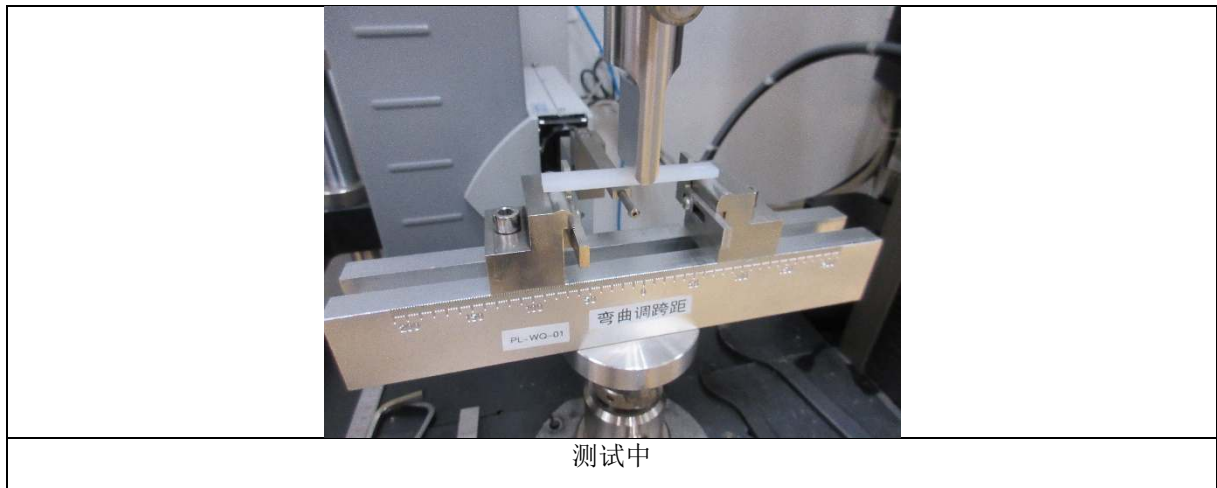
实验室环境条件: (23±2)°C, (50±5)%RH

测试结果:

| 测试项目 | 测试结果 |
|------|----------|
| 弯曲强度 | 21.8 MPa |

备注: 测试试样从样品中截取。

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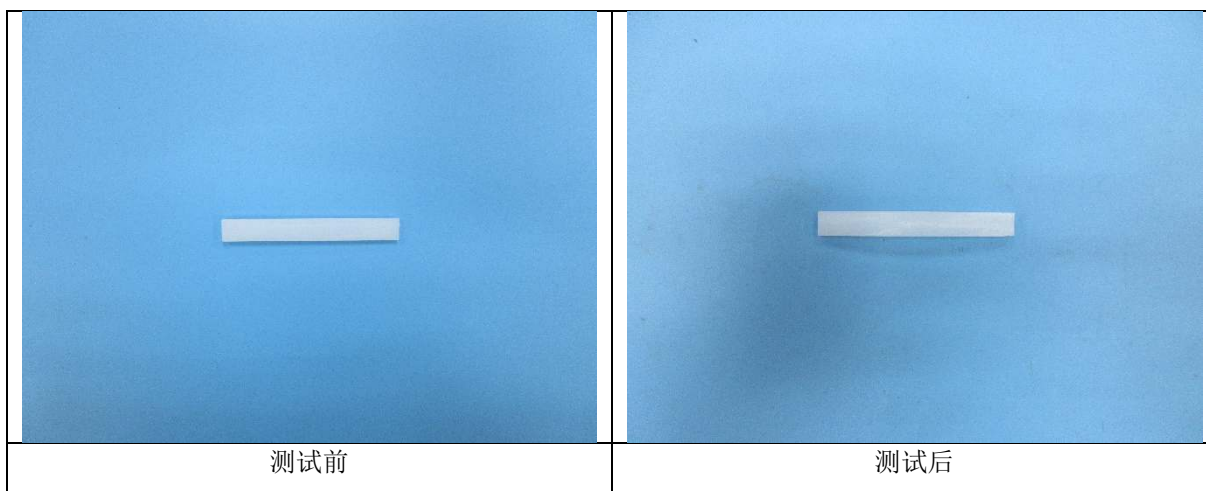
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4. 测试项目: 邵氏硬度

样品描述: 塑料件

测试方法: GB/T 2411-2008

测试条件:

试样厚度: 22.6mm

实验室环境条件: (23±2)°C, (50±5)%RH

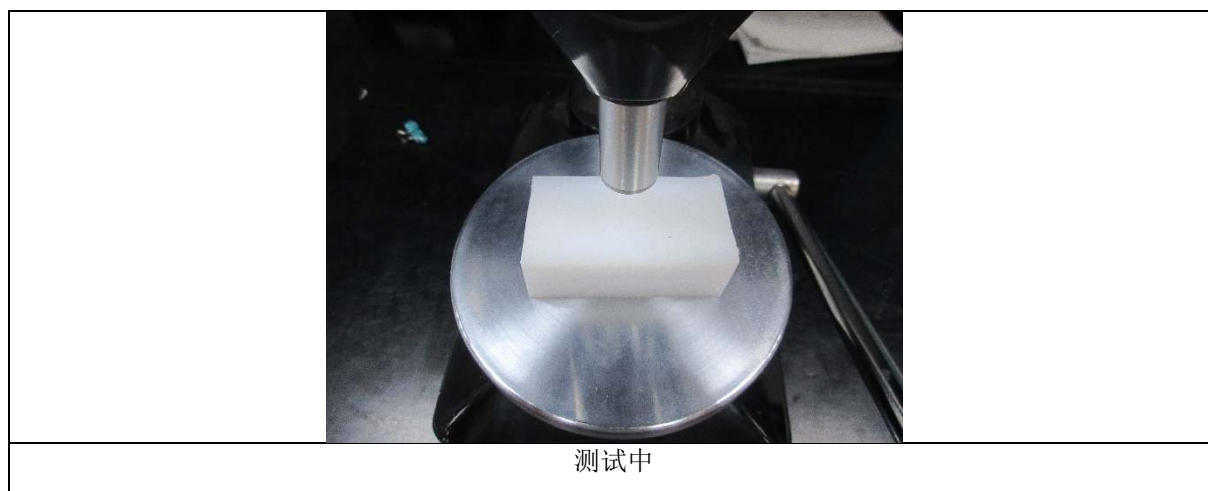
测试结果:

| 测试项目 | 测试结果 |
|------|---------|
| 邵氏硬度 | D/15:56 |

备注:

- 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。
- 测试试样从样品中截取。

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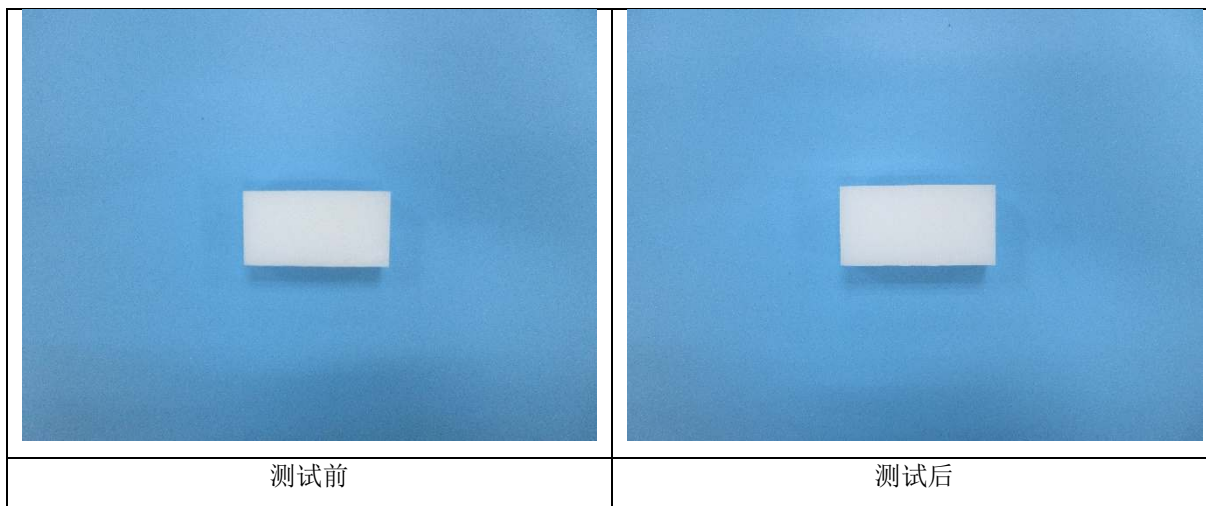
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|-----------|-------|---------|------------|------------|
| 邵氏 D 型硬度计 | TH210 | POL-005 | 2020-01-14 | 2021-01-13 |



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测试报告

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日期 : 2020-08-11

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5. 测试项目: 拉伸测试

样品描述: 塑料件

测试方法: GB/T 1040.1-2018 & GB/T 1040.2-2006

测试条件:

试样: 1B 型

试样厚度: 4.24mm

测试速度: 50 mm/min

标距: 50mm

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:

| 测试项目 | 测试结果 |
|--------|----------|
| 拉伸强度 | 32.8 MPa |
| 断裂拉伸应变 | 240% |

备注: 测试试样从样品中截取。

测试照片:



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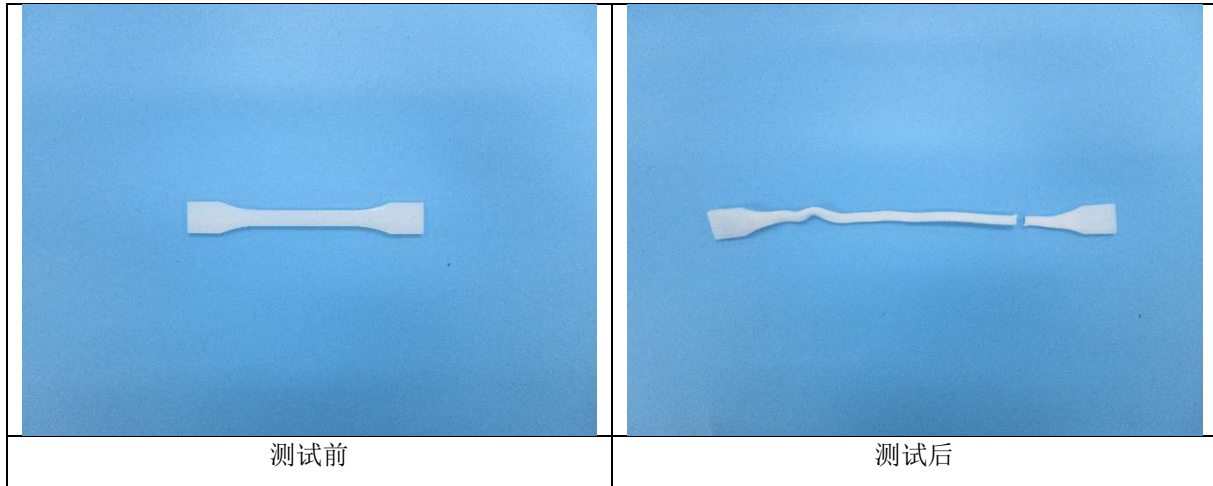
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| 设备 | 型号 | 设备编号 | 校准日期 | 下次校准日期 |
|---------|--------------|---------|------------|------------|
| 万能材料试验机 | Zwick Z020TH | POL-202 | 2019-11-04 | 2020-11-03 |



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6. 测试项目: 吸水率

样品描述: 塑料件

测试方法: GB/T 1034-2008 方法 1 和客户要求

测试条件:

试样: 60.0mm×60.3mm×23.1mm

干燥条件: 50±2°C, 24h

浸泡条件: 23±2°C, 24h

实验室环境条件: (23±2)°C, (50±5)%RH

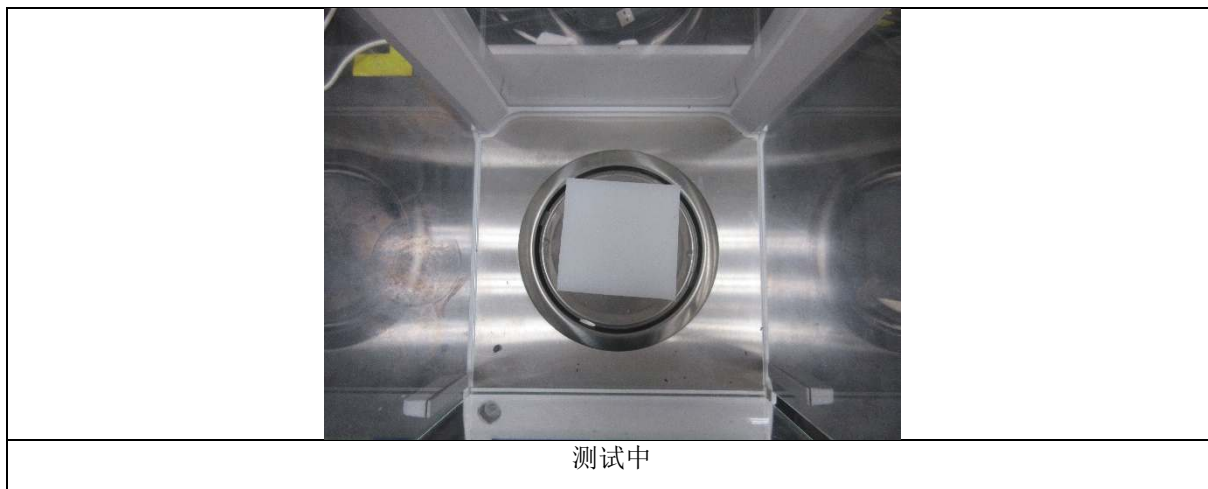
测试结果:

| 测试项目 | 测试结果 |
|------|-------|
| 吸水率 | 0.01% |

备注:

1. 吸水率, $\% = (\text{浸泡后的质量} - \text{浸泡前干燥后的质量}) / \text{浸泡前干燥后的质量} \times 100$ 。
2. 测试试样从样品中截取。
3. 试样数量不满足标准要求, 结果仅供参考。

测试照片:



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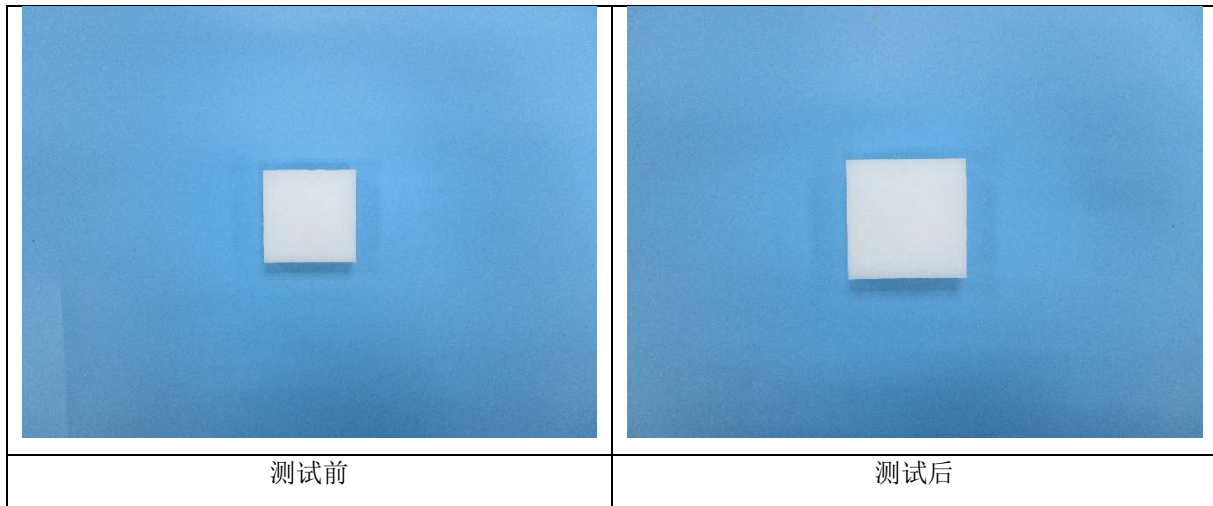
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| 设备 | 型号 | 设备编号 | 校准日期 | 下次校准日期 |
|--------|-------------|---------|------------|------------|
| 电子天平 | MS204TS/02 | POL-193 | 2020-05-08 | 2021-05-07 |
| 电热鼓风烘箱 | UF 260 Plus | POL-129 | 2020-05-06 | 2021-05-05 |



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7. 测试项目: 耐旋转磨耗

样品描述: 见照片

测试方法: GB/T 5478-2008

试验条件:

轮子型号: CS-10

负重: 250g/轮 (总重 500g)

转速: 60 转/分钟

转数: 500 转

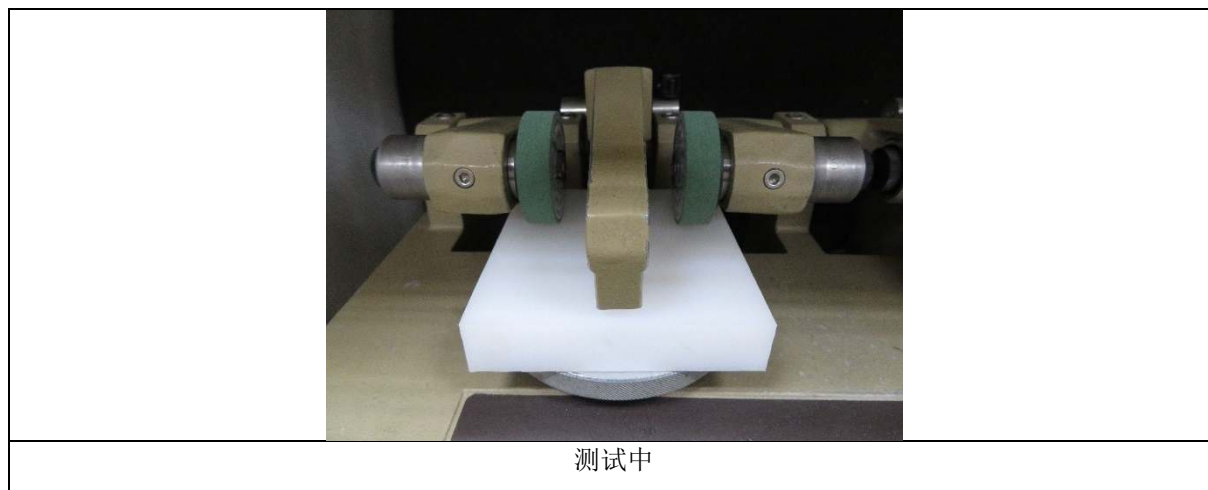
实验室环境条件: (23±2)°C, (50±5)%RH

测试结果:

| 测试项目 | 结果 |
|-------|-------------|
| 耐旋转磨耗 | 重量损失: 1.9mg |

备注: 测试试样从样品中裁取。

测试照片:



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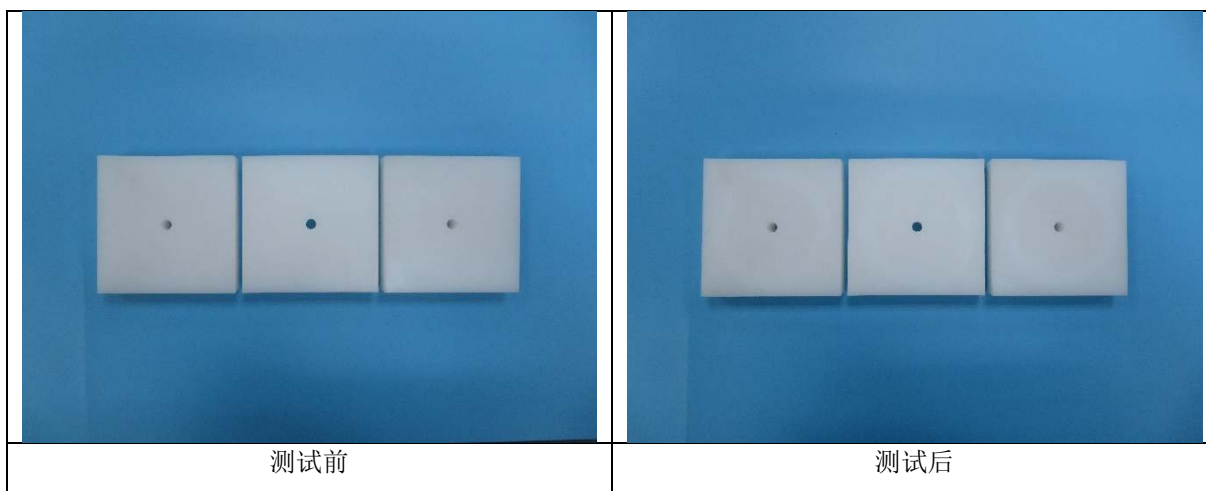
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|--------|------------|---------|------------|------------|
| 密度/天平仪 | YDK01-C | POL-032 | 2019-11-14 | 2020-11-13 |
| 旋转磨耗仪 | Model 5155 | POL-203 | 2020-01-10 | 2021-01-09 |



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8. 测试项目: 简支梁缺口冲击强度

样品描述: 塑料件

测试方法: GB/T 1043.1-2008

测试条件:

试样: GB/T 1043.1/1eA

试样厚度: 3.08mm

摆锤能量: 15J

冲击速度: 3.80m/s

跨距: 62mm

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 |
|-----------|--|
| 简支梁缺口冲击强度 | 60kJ/m ² P(部分破坏) (见表 1) |

表 1:

| 试样 | #1 | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 |
|------------------------------|------|------|------|------|------|------|------|------|------|------|
| 简支梁缺口冲击强度, kJ/m ² | 85.3 | 53.7 | 57.0 | 49.2 | 46.4 | 84.3 | 54.2 | 68.2 | 59.3 | 41.0 |



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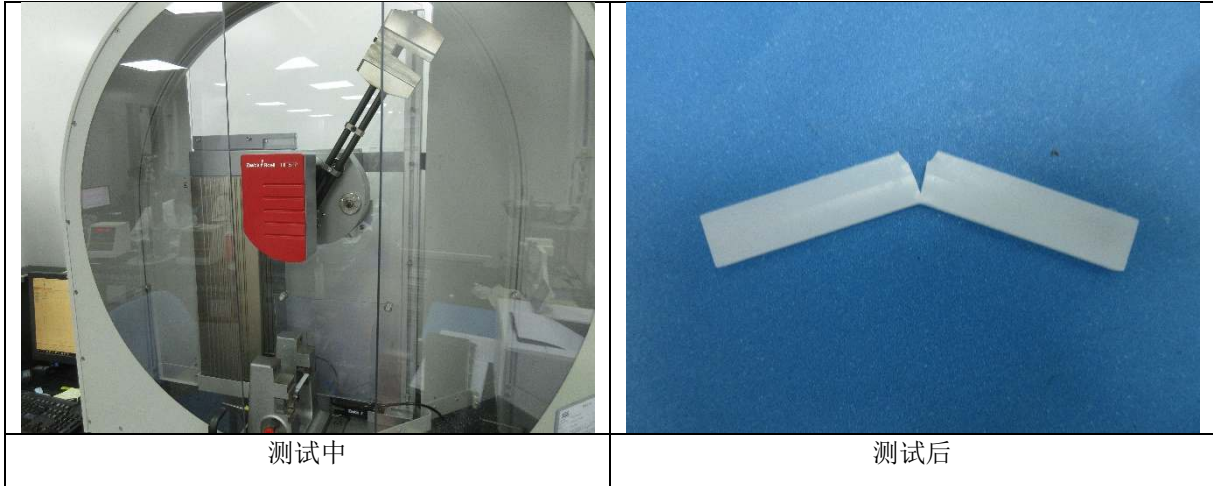
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| 冲击试验仪 | HIT50P | GZMR-PL-E283 | 2019-12-13 | 2020-12-12 |

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