

PA6 GF20

20%玻璃纤维增强，中等强度，良好的尺寸稳定性。
20%Glass fiber reinforced,medium strength,good dimensional stability.

| 性能 Properties | 测试标准 Test Standards | 测试条件 Test Conditions | 单位 Units | 典型值 Typical Values |
|-------------------------------------|------------------------|-------------------------|-------------------|-----------------------|
| 物理性能 Physical | | | | |
| 密度 Density | D792 | 23℃ | g/cm ³ | 1.27 |
| 灰份含量 Ash Content | D2584 | — | % | 20 |
| 收缩率 Mold Shrinkage | D955 | 23℃,flow | % | 0.4 |
| | D955 | 23℃,xflow | % | 0.7 |
| 吸湿率 Moisture Absorption | D570 | 23℃/24h. | % | 1.9-2.5 |
| 阻燃性 Flammability | UL94 | 3.2mm | — | HB |
| 机械性能 Mechanical | | | | |
| 拉伸强度 Tensile Strength | D638 | 5mm/min | Mpa | 130 |
| 伸长率 Elongation at break | D638 | 5mm/min | % | 3 |
| 弯曲强度 Flexural Strength | D790 | 2mm/min | Mpa | 185 |
| 弯曲模量 Flexural Modulus | D790 | 2mm/min | Mpa | 6500 |
| 冲击强度 Impact Strength,IZOD Unnotched | D256 | 23℃ | kJ/m ² | — |
| 缺口冲击强度 Impact Strength,IZOD Notched | D256 | 23℃ | kJ/m ² | 10 |
| 缺口冲击强度 Impact Strength,IZOD Notched | D256 | -20℃ | kJ/m ² | — |
| 热性能 Thermal | | | | |
| 热变形温度 Heat Deflection Temperature | D648 | 1.80Mpa | ℃ | 195 |
| 热变形温度 Heat Deflection Temperature | D648 | 0.45Mpa | ℃ | 215 |
| 电性能 Electrical | | | | |
| 表面电阻率 Surface Resistivity | D257 | 23℃ | Ω | 10 ¹² |
| 体积电阻率 Volume Resistivity | D257 | 23℃ | Ω.cm | 10 ¹³ |
| 介电强度 Dielectric Strength | D149 | 2mm,in oil | Kv/mm | — |

1)染色料的性能可能与以上数值有不同。所有数据是在 23℃、50%相对湿度的环境中测试所得。除流动指数外的其它性能使用注塑样条测试。

Variations within normal tolerances are possible for various colors. All values are measured at 23° C/50% relative humidity. All properties, except the melt flow rates, are measured on injection molded samples.

2)典型值是指实验平均数据，仅用于使用时的参考，不作为产品的标准。

Only typical data for selection purposes.Property values is the average experimental data, when used only for reference, not as a product standards.

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加工条件 Processing Conditions

| 项目 Item | 工艺范围 Range |
|----------------------------------|------------------|
| 熔体温度 Melt Temp. | 230-265℃ |
| 料筒温度 Front - Zone 3 Temperature | 240-275℃ |
| 料筒温度 Middle - Zone 2 Temperature | 240-265℃ |
| 料筒温度 Rear - Zone 1 Temperature | 220-255℃ |
| 模具温度 Mold Temp. | 40-90℃ |
| 注塑速度 Injection Speed | Moderate to high |
| 背压 Back Pressure | 0.1-0.2Mpa |
| 预干燥 Pre-Drying Temperature | 85-90℃ |
| 预干燥 Pre-Drying time | 4-6hr |
| 最大含湿量 Maximum Moisture Content | 0.03% |

以上数值为实验室测得, 实际可能会有所不同, 可根据不同机型、不同模具以及产品要求, 做适当调整。

Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

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Flammability

Flammability results are based on small-scale laboratory tests for purposes of relative comparison and are not intended to reflect the hazards presented by this or any other material under actual fire conditions.

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