



名称: **PPAGF50**  
 牌号: **TPA380G10 HS**

| 产品简介 Product Description                           | 主要应用 Applications                  |
|--|------------------------------------|
| ·50%玻纤增强改性高温尼龙合金<br>50% glass fiber reinforced PPA | ·注塑成型 Injection molding            |
| ·优异的耐热性能 Excellent heat stability                  | ·尺寸稳定性好 Good dimensional stability |

| 性能 Properties                               | 测试标准 Test Method | 测试条件 Test Condition | 单位 Unit           | 典型值 Typical Values |
|---|------------------|---------------------|-------------------|--------------------|
| <b>物理性能 Physical properties</b>             |                  |                     |                   |                    |
| 密度 Specific Gravity                         | ISO 1183         | 23°C                | g/cm <sup>3</sup> | 1.63               |
| 吸水率 Water absorption                        | Sim. to ISO 62   | Water at 23°C, 24h  | %                 | 0.4                |
| <b>机械性能 Mechanical properties</b>           |                  |                     |                   |                    |
| 拉伸强度 Tensile Strength                       | ISO 527          | 2mm/min             | MPa               | 198                |
| 断裂伸长率 Strain at break                       | ISO 527          | 2mm/min             | %                 | 1.3                |
| 弯曲强度 Flexural Strength                      | ISO 178          | 2mm/min             | MPa               | 363                |
| 弯曲模量 Flexural Modulus                       | ISO 178          | 2mm/min             | MPa               | 15808              |
| 简支梁缺口冲击强度 Charpy Notched Impact Strength    | ISO 179-1eA      | 23°C                | kJ/m <sup>2</sup> | 12                 |
| 简支梁无缺口冲击强度 Charpy Unnotched Impact Strength | ISO 179-1eU      | 23°C                | kJ/m <sup>2</sup> | 86                 |
| <b>热性能 Thermal properties</b>               |                  |                     |                   |                    |
| 熔点 Melting point                            | ISO 11357        | DSC, 10°C/min       | °C                | 280.6              |
| 热变形温度 Heat deflection temperature           | ISO 75           | 1.80MPa             | °C                | 278                |
| <b>其它性能 Other properties</b>                |                  |                     |                   |                    |
| 阻燃性 Flammability                            | UL94             | 3.2mm               |                   | HB                 |

**说明:** 以上数据是典型值, 不是保证值。根据模具设计, 例如浇口类型, 浇口分布, 浇口数量的不同, 注塑工艺和制件厚度的不同, 测试结果会有波动。不同的颜色, 测试结果也会有波动。

**Note:** The data above is typical value for reference, not guarantee value. The data will vary with tool design such as gate type, gate location, gate number, injection molding process and part thickness. The data will vary with different color as well.

| 典型加工条件 Processing Conditions       | 参考范围 Range      |
|------------------------------------|-----------------|
| 预干燥 Pre-Dry needed                 | 110-120°C, 4-6h |
| 熔体温度 Melt Temperature              | 295-335°C       |
| 喷嘴温度 Nozzle temperature            | 315°C           |
| 模具温度 Mold Temperature              | 90-150°C        |
| 注塑压力 Injecting pressure            | 80-120MPa       |
| 加工水分要求 Processing moisture content | ≤0.1%           |

**说明:** 以上数值仅供注塑机参考使用, 可根据不同机型、不同模具以及产品要求, 对上述工艺做适当调整。

**Note:** The above process condition is only for reference. The actual process should be adjusted according to different type of machine, mold design and product design.