

## 无卤阻燃增强 PC (HF-1012G10)

Halogen-free Flame Retardant PC Resin (HF-1012G10)

### 一般信息

#### General Information

|                           |                             |                                     |
|---------------------------|-----------------------------|-------------------------------------|
| 特征<br>Features            | ● 无卤阻燃                      | Halogen Free Flame Retardant        |
|                           | ● 高耐热                       | High Heat Resistance                |
|                           | ● 高冲击                       | High Impact Strength                |
|                           | ● 尺寸稳定                      | Good Dimensional Stability          |
| 应用<br>Uses                | ● 电器产品                      | Electronics and Electrical Products |
|                           | ● 汽车部件                      | Automotive Applications             |
|                           | ● 开关面板                      | Switch Panel                        |
| 形态<br>Forms               | ● 粒子<br>● Pellets           |                                     |
| 加工方法<br>Processing Method | ● 注塑<br>● Injection Molding |                                     |

### 产品性能

#### Typical Properties

|                    |                                                                  | 测试标准<br>Test standard | 测试条件<br>Test Condition | 典型值<br>Typical Value  |
|--------------------|------------------------------------------------------------------|-----------------------|------------------------|-----------------------|
| 物理性能<br>Physical   | 熔融指数<br>Melt Flow Index                                          | ASTM D1238            | 300°C/1.2kg            | 15g/10min             |
|                    | 密度<br>Specific Gravity                                           | ASTM D792             | 23°C                   | 1.26g/cm <sup>3</sup> |
|                    | 成型收缩率<br>Mold Shrinkage                                          | ASTM D955             | 23°C                   | 0.3-0.5%              |
| 力学性能<br>Mechanical | 拉伸强度<br>Tensile Strength                                         | ASTM D638             | 50mm/min               | 80MPa                 |
|                    | 断裂伸长率<br>Tensile Elongation                                      | ASTM D638             | 50mm/min               | 10%                   |
|                    | 弯曲强度<br>Flexural Strength                                        | ASTM D790             | 2.0mm/min              | 125MPa                |
|                    | 弯曲模量<br>Flexural Modulus                                         | ASTM D790             | 2.0mm/min              | 4020MPa               |
|                    | 悬臂梁缺口冲击<br>强度<br>Izod Notched<br>Impact Strength                 | ASTM D256             | 23°C                   | 120J/m                |
| 热性能<br>Thermal     | 热变形温度(未退<br>火)<br>Heat Deflection<br>Temperature<br>(Unannealed) | ASTM D648             | 1.82MPa                | 142°C                 |
| 燃烧<br>Firing       | 阻燃性<br>Flammability                                              | UL-94                 | 1.5mm                  | V0                    |

## 加工信息

### Processing Guidelines

|                            |             |
|----------------------------|-------------|
| 干燥条件<br>Drying             | 120°C, 4.0h |
| 后段温度<br>Rear Temperature   | 265°C-280°C |
| 中段温度<br>Middle Temperature | 270°C-290°C |
| 前段温度<br>Front Temperature  | 270°C-290°C |
| 喷嘴温度<br>Nozzle Temperature | 270°C-290°C |
| 熔体温度<br>Melt Temperature   | 275°C-295°C |
| 模温<br>Mold Temperature     | 110°C-115°C |
| 背压<br>Back pressure        | 0.3-0.6MPa  |
| 螺杆转速<br>Screw Speed        | 40-60rpm    |

### 备注:

#### Note:

- 所有数据为实验室典型值，仅供参考，不作为产品标准。  
All data are typical values from laboratory. The data are used for reference only, not as production standard.
- 生产时避免材料和其他材料、灰尘及杂物接触。  
Avoid contact with other materials, dust and debris in the injection processing.
- 注塑时避免材料长时间停留在螺杆中。  
Avoid long time stay in the barrel in the injection processing.

