



## Material Data Sheet

## PC Film/Sheet Products

### 产品描述 Description:

**FRPC60** is a Transparent Clear, glossy flame-resistant polycarbonate (PC) film. It is widely used in power supplies, TV/monitors, business computers as insulation and shielding. It has better mechanical properties, appearance, stable and uniform color. It is also widely used in power supplies, TV/monitors, business computers as insulation and shielding.

| 商品代码<br>Type | 颜色<br>Color | 表面纹理<br>Surface texture  | 厚度(mm)<br>Thickness            | 宽度(mm)<br>Width | 性能<br>Feature                       |
|--------------|-------------|--------------------------|--------------------------------|-----------------|-------------------------------------|
| FRPC60       | 透色<br>Clear | 光面/光面<br>Glossy / Glossy | 0.175~1.500<br>(0.007"~0.060") | 930<br>(3')     | 阻燃特性<br>Flammability<br>VTM-0 & V-0 |

### 物性表 Typical Property Table

| 特性<br>Property                                  | 测试方法<br>Test Method | 单位<br>Unit        | 测试值<br>Test value  |
|---|---------------------|-------------------|--------------------|
| <b>物理性 PHYSICAL</b>                             |                     |                   |                    |
| 比重 Specific Gravity                             | ASTM D792           | g/cm <sup>3</sup> | 1.30~1.32          |
| 平均吸水率<br>Water Absorption Equilibrium, 24 hrs   | ASTM D570           | %                 | 0.35               |
| <b>机械性 MECHANICAL</b>                           |                     |                   |                    |
| 伸张强度 Tensile Strength                           | ASTM D882           | psi               | 7,300              |
|   | ISOR1184-1987       | MPa               | 50                 |
| 极限延伸率 Elongation at break                       | ASTM D882           | %                 | >15                |
| 冲击强度 Impact Strength @ 30mils                   | JIS-K6745           | In-lbs            | 60                 |
| 撕裂强度 Tear Strength Propagation                  | ASTM D1922          | g/mil             | >30                |
| <b>耐温性 THERMAL</b>                              |                     |                   |                    |
| 维卡软化点 Vicat Softening Point 120 °C/hr, 10N load | ISO 306             | °C                | 151                |
| <b>电气性 ELECTRICAL</b>                           |                     |                   |                    |
| 介电强度 Dielectric Strength (@ 10mils)             | ASTM D149           | KV/mm             | >= 20              |
| 体积绝缘 Volume Resistivity @25°C, 50%RH            | ASTM D257           | Ω·cm              | ~ 10 <sup>17</sup> |
| 表面绝缘 Surface Resistivity @25°C, 50%RH           | ASTM D257           | Ω                 | ~ 10 <sup>15</sup> |
| <b>阻燃性 FLAMMABILITY</b>                         |                     |                   |                    |
| UL 防火等级 UL Flammability @ ≥10 mils              | SGS UL Test         |                   | V-0                |

**Note: The values in the typical property table are for reference only. For further requirements, please contact us.**