



omay<sup>®</sup> 绝缘阻燃 PC 薄膜 SE21

omay<sup>®</sup> Flame Retardent Polycarbonate (FRPC) Film SE21

| 颜色<br>Color        | 表面纹理<br>Texture       | 厚度范围<br>Thickness | 用途<br>Application  |
|--------------------|-----------------------|-------------------|--|
| 半透明<br>transparent | 哑光/抛光<br>Matte/polish | 0.125mm~<br>1.0mm | <b>Electrical Vehicles (EV), Solar Energy (PV), Non<br/>EV Automotive, Cloud Data Centers, Industrial<br/>Controls, LED Lighting, Electrical Power<br/>Distribution, Consumer Electronics, Major<br/>Appliances, Medical Electronics, Information<br/>Technology, Telecommunications</b> |

物性一览表

Product Datasheet

| 序号<br>Item       | 物性<br>Property            | 性能指标<br>Value | 单位<br>Unit        | 测试标准<br>Test Method |
|------------------|---------------------------|---------------|-------------------|---------------------|
| 物理性能<br>Physical | 密度<br>Density             | 1.32          | g/cm <sup>3</sup> | ISO 1183            |
|                  | 雾度<br>Haze                | >70           | %                 | ASTM D1003          |
|                  | 透光率<br>Light Transmission | >80           | %                 | ASTM D1003          |
| 机械性能<br>Physical | 拉伸强度<br>Tensile Strength  | 60            | MPa               | ISO 527             |
|                  | 断裂伸长率<br>Elongation       | >100          | %                 | ISO 527             |
|                  | 拉伸模量<br>Tensile Modulus   | 2400          | MPa               | ISO 527             |
|                  | 弯曲强度                      | 91            | MPa               | ISO 178             |





|                     |  |           |                       |            |
|---------------------|--|-----------|-----------------------|------------|
|                     | Flexural Strength                              |           |                       |            |
|                     | 表面张力<br>Surface tension                        | >34       | dyn / cm              | 测试液        |
|                     | 介电常数<br>Dielectric Constant                    | 3         | -                     | IEC60250   |
|                     | 耐电压值<br>Resistant Puncture<br>Voltage          | 30        | KV/mm                 | IEC 60243  |
| 电性能<br>Electrical   | 耐电弧性<br>Arc Resistivity                        | 250       | -                     | IEC60112   |
|                     | 表面电阻率<br>Surface Resistivity                   | 1.00E+16  | Ω/square              | IEC 60093  |
|                     | 体积电阻率<br>Volume Resistivity                    | 1.00E+17  | Ω-cm                  | IEC 60093  |
|                     | 热膨胀系数<br>Coefficient of Thermal<br>Expansion   | 5.8       | ×10 <sup>-5</sup> /°C | ISO 11359  |
| 热性能<br>Thermal      | 热传导率<br>Thermal Conductivity                   | 0.2       | W/(m*K)               | ASTM D5470 |
|                     | 收缩率 (150°C)<br>Thermal Shrinkage (at<br>150°C) | 0.5~0.7   | %                     | ASTM D1204 |
|                     | 玻璃化温度<br>Tg                                    | 152       | °C                    | ISO 11357  |
| 可燃性<br>Flammability | UL94   | V-0/VTM-0 |                       | E249605    |

注:本测试仅供参考,不作为绝对应用指标.

Tip: This test data is for reference only, not as an absolute application index

