



omay<sup>®</sup> 绝缘阻燃 PC 薄膜 SE42

omay<sup>®</sup> Flame Retardent Polycarbonate (FRPC) Film SE42

| 颜色                 | 表面纹理                  | 厚度范围              | 用途   |
|--------------------|-----------------------|-------------------|--|
| Color              | Texture               | Thickness         | Application  |
| 半透明<br>transparent | 磨砂/哑光<br>Velvet/Matte | 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               | 物性                        | 性能指标  | 单位                | 测试标准        |
|------------------|---------------------------|-------|-------------------|-------------|
| Item             | Property                  | Value | Unit              | 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<br>Flexural Strength | 91    | MPa               | ISO 178     |





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|                     |  |           |                       |            |
|---------------------|--|-----------|-----------------------|------------|
|                     | 表面张力<br>Surface tension                        | >34       | dyn / cm              | 测试液        |
|                     | 介电常数<br>Dielectric Constant                    | 3         | -                     | IEC60250   |
| 电性能<br>Electrical   | 耐电压值<br>Resistant Puncture<br>Voltage          | 30        | KV/mm                 | IEC 60243  |
|                     | 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  |
| 热性能<br>Thermal      | 热膨胀系数<br>Coefficient of Thermal<br>Expansion   | 5.8       | ×10 <sup>-5</sup> /°C | ISO 11359  |
|                     | 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



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