

台化出光PC V1900中英文物性表

| 項目 Property | 試驗方法 Test Method | 單位 Unit | V1900 |
|--|---------------------|-------------------------|------------------------|
| 物理性質 Physical Properties | | | |
| 密度 Density | ISO1183 | kg/m ³ | 1.20 × 10 ³ |
| 熔融指數 Melt Flow Rate (300°C, 1.2kg) | ISO1133 | cm ³ /10 min | 19 |
| 吸水率 Water adsorption | ISO 62 | % | 0.23 |
| 機械性質 Mechanical Properties | | | |
| 抗張強度 Tensile stress at Yield | ISO 527 | Mpa | 65 |
| 斷張強度 Tensile stress at break | ISO 527 | Mpa | 65 |
| 斷張率 Nominal tensile strain at break | ISO 527 | % | 95 |
| 張力模數 Modulus of elasticity in tensile | ISO 527 | Mpa | 2000 |
| 彎曲強度 Flexural strength | ISO 178 | Mpa | 90 |
| 彎曲模數 Modulus of elasticity in flexure | ISO 178 | Mpa | 2300 |
| Charpy衝擊強度 Charpy impact strength(1eA) | ISO 179 | kJ/m ² | 70 |
| I洛氏硬度 Rockwell Hardness | ISO 2039-2 | R, M-scale | R120, M50 |
| 熱學性質 Thermal Properties | | | |
| HDT 熱變形溫度 Heat deflection temperature under load (18.6 kg/cm ²) (1.8Mpa) | ISO 75-1 | °C | 125 |
| 成型收縮率 Mold Shrinkage (MD) | ASTM D 955 | % | 0.5~0.7 |
| 線膨脹係數 Linear expansion factor (MD) | ASTM D 696 | cm/cm/°C | 6.5 × 10 ⁻⁵ |
| 電氣性質 Electrical Properties | | | |
| 絕緣強度 Dielectric strength (1.0 mmt) | IEC60243-1 | MV/m | 30 |
| 體積固有阻抗 Volume resistivity | IEC60093 | Ohm × m | > 10 ¹⁶ |
| 比誘電率 Dielectric constant (100 Hz) | IEC60250 | - | 2.91 |
| 比誘電率 Dielectric strength (10 ⁶ Hz) | IEC60250 | - | 2.85 |

| | | | |
|---|-------------|---------------------|---|
| 誘電正接因子 Dielecttric dissipation factor (100 Hz) | IEC60250 | - | 6.6×10^{-4} |
| 誘電正接因子 Dielecttric dissipation factor (10^6 Hz) | IEC60250 | - | 9.2×10^{-3} |
| 耐電弧性 Arc resistance | ASTM D 495 | sec | 110 |
| <u>光學性質 Optical Properties</u> | | | |
| 折射率 Refractive index ($n_{D^{25}}$) | ASTM D542 | - | 1.585 |
| 透光率 Light transmittance | ISO 13468-1 | % | 85~89 |
| <u>燃燒性 Flammability</u> | | | |
| 燃燒性 Flammability | UL-94 | File No. E238753 | V-2 (0.36mm) V-2 (1.8mm) HB (1.9mm) HB (3.0mm) HB (6.0mm) |