 台化出光聚碳酸酯(PC)膠粒物性彙總表  
TARFLON  PC (Polycarbonate) general properties data sheet

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| 項  目 Property | 試驗方法 Test Method | 單  位 Unit | #１７００ |
| 物理性質 Physical Properties | | | |
| 密度  Density | ISO1183 | kg/m3 | 1.20 × 103 |
| 熔融指數 Melt Flow Rate  (300℃, 1.2kg) | ISO1133 | cm3/10 min | 27 |
| 吸水率  Water adsorpton | 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/m2 | 40 |
| 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/cm2) (1.8Mpa) | ISO 75-1 | ℃ | 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/℃ | 6.5 × 10-5 |
| 電氣性質 Electrical Properties | | | |
| 絕緣強度  Dielecttric strength (1.0 mmt) | IEC60243-1 | MV/m | 30 |
| 體積固有阻抗  Volume resistivity | IEC60093 | Ohm × m | > 1016 |
| 比誘電率  Dielecttric constant (100 Hz) | IEC60250 | - | 2.91 |
| 比誘電率  Dielecttric strength (106 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 (106 Hz) | IEC60250 | - | 9.2 × 10-3 |
| 耐電弧性  Arc resistance | ASTM D 495 | sec | 110 |
| 光學性質 Optical Properties | | | |
| 折射率  Refractive index (nD25) | ASTM D542 | - | 1.585 |
| 透光率  Light transmittance | ISO 13468-1 | % | 85~89 |
| 燃燒性  Flammability | | | |
| 燃燒性  Flammability | UL-94 | File No.  E238753 | V-2 (0.36mm)  V-2 (2.4mm)  HB (2.5mm)  HB (3.0mm)  HB (6.0mm) |

以上數值係依照ISO及ASTM試驗方法所測得，僅供選擇用途品級之參考。

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