# 台化出光塔夫龍™聚碳酸脂樹脂特性表
# FIPC TARFLON™ PC Typical property table

| TARFLON™ | | | #1500 | #1700 | #1900 | #2200 | #2500 |
|---|---|---|---|---|---|---|---|
| ISO 識別標誌 ISO identification mark | | | | | > PC< | | |
| 類型 Type | A | | | | A1900 | A2200 | A2500 |
| | IR | | | IR1700 | IR1900 | IR2200 | IR2500 |
| | IV-R | | | | IV1900R | IV2200R | |
| | IV | | | | | | IV2500 |
| | VT | | | | | | VT2500 |
| | HQ | | | | | HQ2200 | |
| | MD | | MD1500 | | | | |
| | LC | | LC1500 | | | | |
| 性質 Property | 測試方法 Method | 單位 Units | | | | | |
| 物理性質 Physical | | | | | | | |
| 融熔指數 MFR | ISO 1133 | g/10min | 65 | 26 | 19 | 11 | 7 |
| 密度 Density | ISO 1183 | $g/cm^3$ | | | 1.2 | | |
| 吸水率 Water absorption | ISO 62 (50%RH 24hr) | % | | | 0.23 | | |
| 機械性質 Mechanical | | | | | | | |
| 拉伸強度 Tensile stress at Yield | ISO 527-1,2 | MPa | | | 65 | | |
| 斷張強度 Tensile strain at break | ISO 527-1,2 | % | 80 | 95 | 95 | 95 | 90 |
| 彎曲強度 Flexural strength | ISO 178 | MPa | | | 90 | | |
| 彎曲模數 Flexural modulus | ISO 178 | GPa | 2.3 | 2.3 | 2.3 | 2.3 | 2.2 |
| 衝擊強度 Charpy Impact strength | ISO 179-1(Notched) | $KJ/m^2$ | 15 | 40 | 70 | 80 | 80 |
| 洛氏硬度 Rockwell hardness | ISO 2039-2 | R / M scale | | | R120/M50 | | |
| 熱學性質 Thermal | | | | | | | |
| 熱變型溫度 Heat deflection temperature | ISO 75-1,2 | 1.8 MPa | | | 125 | | |
| 線性熱膨脹係數 Linear thermal expansion coefficient | ISO 11359-2 | X $10^{-5}$/°C | | | 6.5 | | |
| 成型收縮率 Mold shrinkage | ASTM D955 | % | | | 0.5 ~ 0.7 | | |
| 光學性質 Optical | | | | | | | |
| 透光率 Total luminous transmittance | ISO 13468-1 | % | | | 85 ~ 90 | | |
| 燃燒性質 Flammability | | | | | | | |
| UL等級 UL rating (*1) | UL94 | class/mm | V-2/0.42~1.5 (exceptMD) | V-2/0.4~2.4 | V-2/0.36~1.8 | V-2/0.36~2.9 (except HQ) | V-2/0.36~2.9 (except VT) |
| 建議成型條件 Recommendation molding condition | | | | | | | |
| 預乾燥條件 Pre-drying condition | | | | | 120°C,5~8hr | | |
| 料筒溫度 Cylinder temperature | | | | | 260 ~ 300°C (Max.320°C) | | |
| 模溫 Mold temperature | | | | | 80 ~ 120°C | | |

(*1)UL檔案號碼：QMFZ2.E238753

以上數據僅提供數據訊息，如有修訂則不另行通知，以本公司最新的訊息為主。請參閱最後頁的免責聲明。

(*1)UL file No. QMFZ2.E238753

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