



上禾伸企業有限公司

Good-Plastics

複合塑膠產品開發、銷售專業技術諮詢

專業研發·成效卓著

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技術資料表 Technical Data Sheet

7WGTYPE

高耐熱、高剛性、耐寒、耐衝級

High heat resistance, high rigidity, cold resistance, impact resistance

| | |
|-----------|--|
| 樹脂 Resin | TPEE 熱可塑性聚酯彈性體 Thermoplastic polyester elastomer |
| 規格 Grade | 7WG565D6-A2 |
| 來源 source | 上禾伸企業 |

描述 Description

- 添加 30%GF 剛性強化、耐熱強化。
Add 30% GF to strengthen rigidity and heat resistance.
- 優良的反撥彈性、抗撕裂佳。
Excellent rebound elasticity and tear resistance.
- 耐磨性極佳。
Excellent abrasion resistance.
- 可耐低溫-35~-50°C
Can withstand low temperature -35~-50°C.
- 耐油、耐潤滑油及耐脂肪族碳氫有機溶劑。
Oil resistance, lubricating oil resistance and aliphatic hydrocarbon organic solvent resistance.
- 具抗氧、臭氧及耐老化之特性。
With anti-oxidation, ozone and anti-aging properties.
- 耐熱性為彈性體中優秀的塑料之一。
Heat resistance is one of the excellent plastics in elastomers.
- 耐撕裂性佳，適用於工業產品零組件、與運動器材。
Good tear resistance, suitable for industrial product components, and sports equipment.

應用 application

運動器材以及工業機械零件等。

Sports equipment and industrial machinery parts, etc.

| | |
|--------------|-------------------|
| 成型模式 | 射出成型 |
| Forming mode | Injection Molding |

TPEE 7WG565D6-A2 TDS 1/2

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**特性 Properties**

| 項目 Project | 測試標準 Testing standards | 單位 Unit | 標準數值 Typical Value |
|-----------------------------|---------------------------|-------------------|-----------------------|
| 硬度 Rockwell Hardness | ASTM D-2240 | Shore D | 65±3 |
| 填充劑含量 Filler Content | | % | 30 |
| 比重 Specific Gravity | ASTM D792 | g/cm ³ | 1.44 |
| 流動指數 MFR,(MI) 230×2.16KG | ASTM D1238 | g/10min | 40 |
| 收縮率-平行 Mold Shrinkage MD | 3 mm t | % | 1.5 |
| 收縮率-垂直 ⊥ Mold Shrinkage TD | | | ~2.0 |
| 耐燃性 Flammability | UL-94 | | HB |
| 顏色 Color | | | natural color |

機械特性 Mechanical properties

| | | | |
|-----------------------------------|-----------------|---------------------|-------|
| 伸張降伏強度 Tensile Strength at Yield | | | 590 |
| 伸張斷裂強度 Tensile Strength at Break | ASTM D638 | kg/ cm ² | 380 |
| 拉伸模數 Tensile Modulus | | | 22900 |
| 斷裂伸張率 Tensile Elongation at Break | | % | 9 |
| 彎曲強度 Flexural Strength | ASTM D790 | kg/ cm ² | 760 |
| 彎曲模數 Flexural Modulus | | | 21500 |
| 衝擊強度(缺口式)IZOD Impact (notched) | ASTM D256 | 23°C kg-cm/cm | 21.5 |
| 硬度 Rockwell/Shore Hardness | ASTM D785/D2240 | D | 65 |

熱力特性 Heat properties

| | | | |
|-----------------------------------|-----------|----|-----|
| 熱變形溫度 18.54kg/ cm ² | | | 140 |
| Heat distortion temperature H D T | ASTM D648 | °C | |
| 熱變形溫度 4.6kg/ cm ² | | | 185 |
| Heat distortion temperature H D T | | | |
| 熔融溫度 Melting temperature | DSC | | 205 |

成型條件 Molding conditions

| | | | |
|------------------------------|---------|---|---------|
| 烘乾溫度 Drying temp. °C | 95~100 | 烘乾時間 Drying time H | 3~4 |
| 進料區溫度 Feed zone temp. °C | 195~215 | 壓縮區溫度 Compression zone temp. °C | 200~225 |
| 計量區溫度 Metering zone temp. °C | 210~230 | 噴嘴溫度 Nozzle temp. °C | 210~235 |
| 模具溫度 Mold temp. °C | 50 | 射出壓力 Injection pressure Kg/ cm ² | 400~800 |

*雖然上述信息是出於善意並被認為是準確的，但我們不保證依賴此類信息取得令人滿意的結果，並且不承擔因使用此類信息而引起的任何損失或損害的全部責任。*以上數值係僅供選擇用途品級之參考。

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