

1WG575D6 高硬度

TPU 30%GF 高韌性、高剛性、耐熱強化塑料

DATA SHEET

Product : 1WG575D6

射出級 injection

Description

1WG575D6 高性能工程 Thermoplastic polyurethane TPU 複合材料，含 30% 的玻璃纖維複合，它具備有優異之韌度、高機械強度、耐磨耗性以及耐溶劑性，符合 FDA 規範，適用於射出用途。

1WG575D6 high-performance engineering Thermoplastic polyurethane TPU composite material, containing 30% glass fiber composite, it has excellent toughness, high mechanical strength, wear-resistance and solvent resistance, in line with FDA regulations, suitable for injection purposes.

特性 Properties

Properties	Test Method	Typical Values
硬度 Shore D Hardness	ASTM D-2240	75
比重 Specific Gravity g/cm ³	ASTM D-792	1.41
% Glass Fiber		30
物理性質 Physical Properties		
拉伸降伏強度 Tensile Strength Yield kg/cm ²		720
拉伸斷裂強度 Tensile Strength break kg/cm ²	ASTM D-638	610
斷裂伸長率 Elongation at Break %		26
彎曲強度 Flexural Strength kg/cm ²	ASTM D790	880
彎曲彈性係數 Flexural Modulus kg/cm ²		24400
衝擊強度(缺口式) IZOD Impact (notched) 23°C (1/8") kg-cm/cm	ASTM D256	34
熱力特性 Heat properties		
熱變形溫度 4.68kg/ cm ² (H D T)		96
Heat Deflection Temperature °C	ASTM D256	
熱變形溫度 18.6kg/ cm ² (H D T)		90
Heat Deflection Temperature °C		
其他屬性 Miscellaneous Properties		
燃燒性 Flammability UL94		HB

以上數據僅供參考 The above data are for reference only

TPU 1WG575D6 TDS 1/2

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射出成型條件 Injection molding conditions

建議乾燥溫度 Recommended drying temperature: 90°C ±5°C

建議乾燥時間 Recommended drying time: 4H

TPU 樹脂具有吸濕性，TPU 樹脂的預乾燥始終是加工前的必要步驟。依氣候，暴露在大氣中的顆粒會很快吸收水分。水分可能會導致聚合物的部分降解以及在模製和擠出部件中形成氣泡或條紋。為了確保高效和成功加工成優質部件，請參考建議烘乾溫度及時間。

TPU resin has hygroscopicity, and pre-drying of TPU resin is always a necessary step before processing. Relying on the climate, particles exposed to the atmosphere will quickly absorb moisture. Moisture may cause partial degradation of the polymer and formation of air bubbles or streaks in molded and extruded parts. In order to ensure efficient and successful processing into high quality parts, please refer to the recommended drying temperature and time.

建議射出成型溫度：

硬度	Zone1	Zone2	Zone3	噴嘴部	射出壓力	冷卻溫度
64D~74D	165~200	195~215	200~220	205~220	100~160	20~35

成型溫度以低標為設定基準試做，逐步以 5°C 升高成型溫度，直到適合成型溫度即可，否則溫度過高，產品容易產生變色、過火熱烈解。

The molding temperature is tested by setting the low standard as a reference, and gradually increasing the molding temperature by 5°C until it is suitable for the molding temperature. Otherwise, the temperature is too high, and the product is prone to discoloration and overheating.

供應與儲存 Supply and Storage

TPU 樹脂以顆粒形式提供，包裝在 25kg 防潮袋中。所有 TPU 樹脂在包裝前都已經乾燥。TPU 樹脂應儲存在陰涼乾燥的環境中，直到使用前為止。儲存溫度不應超過 30°C。如果僅從袋中使用一部分 TPU 樹脂，則其餘 TPU 樹脂應該緊密封閉。

TPU resins are supplied in pellet form packed in 25kg moisture proof bags. All TPU resins have been dried before packing. Isothane TPU resins should be stored in cool and dry environment in their original containers until be used. Storage temperature should not exceed 30°C. If only a portion of TPU resins was used from a bag, the remainder of TPU resins should be tightly closed.

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