



技術資料表
Technical Data Sheet

KGRTYPE

超高剛性強化、耐熱，耐衝級

Ultra-high rigidity reinforcement, heat resistance, impact resistance

樹脂 **Resin** PBT Polybutylene terephthalate

規格 **Grade** KGR5X-B2

來源 **source** 上禾伸企業

描述 Description

- 添加 50%GF 強化，超高剛性，耐熱，增韌耐衝擊增強。
Added 50% GF reinforcement, ultra-high rigidity, heat resistance, toughening and impact resistance.
- 優異的電氣性能，耐熱老化性佳。
Excellent electrical properties, good heat aging resistance.
- 耐油及耐化學性、耐藥性佳。對燃料、油、脂肪和許多溶劑具有高耐受性。
Good oil resistance, chemical resistance and drug resistance. High resistance to fuels, oils, fats and many solvents.
- 尺寸安定性、低吸濕性。
Dimensional stability, low hygroscopicity.
- 優良的成型性，結晶速度快，成型性優異。
Excellent formability, fast crystallization speed and excellent formability.
- 耐水解性高，耐候性佳。
High hydrolysis resistance and good weather resistance.

成型模式

Forming mode

射出成型

Injection Molding



特性 Properties

項目 Project	單位 Unit	測試標準 Testing standards	標準數值 Typical Value
填充劑含量 Filler Content	%		50
比重 Specific Gravity	g/cm ³	ASTM D792	1.7
流動指數 MFR,(MI) 260×2.16KG	g/10min	ASTM D1238	15
收縮率-平行 Mold Shrinkage MD	%	3 mm t	0.1
收縮率-垂直 ⊥ Mold Shrinkage TD			~0.3
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			1200
伸張斷裂強度 Tensile Strength at Break	kg/ cm ²	ASTM D638	1050
拉伸模數 Tensile Modulus			2
斷裂伸張率 Tensile Elongation at Break	%		88000
彎曲強度 Flexural Strength			2000
彎曲模數 Flexural Modulus	kg/ cm ²	ASTM D790	115000
衝擊強度(缺口式)IZOD Impact (notched)	23°C kg-cm/cm	ASTM D256	18
硬度 Rockwell/Shore Hardness	D	ASTM D785/D2240	85

熱力特性 Heat properties

熱變型溫度 18.54kg/ cm ² H D T	°C	ASTM D648	205
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電氣特性 Electrical properties

體積固有阻抗 Volume inherent impedance	Ω-cm	ASTM D257	10 ²⁻⁴
表面阻抗 Surface resistivity	Ω		10 ²⁻⁴
塑料狀態 plastic state			乾燥 dry

成型條件 Molding conditions

烘乾溫度 Drying temp. °C	100~140	烘乾時間 Drying time H	2~6
進料區溫度 Feed zone temp. °C	235~255	壓縮區溫度 Compression zone temp. °C	240~260
計量區溫度 Metering zone temp. °C	245~265	噴嘴溫度 Nozzle temp. °C	235~265
模具溫度 Mold temp. °C	60~100	射出壓力 Injection pressure Kg/ cm ²	800~1200

*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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