

技術資料表  
Technical Data Sheet

**BGTNTYPE**

剛性強化、耐熱、熱安定，高耐衝，降低浮纖，高黑度  
 Rigidity enhancement, heat resistance, thermal stability,  
 high impact resistance, reduced floating fiber, high  
 blackness

**樹脂 Resin**     PC Polycarbonate  
**規格 Grade**     BG5FD-N5 BK  
**來源 source**     上禾伸企業

**描述 Description**

- 添加 13%GF 剛性強化，耐熱 140°C，高溫成型加工相對穩定。添加礦物粉翹曲減緩。  
 Adding 13% GF to strengthen the rigidity, it is heat-resistant to 140°C and is relatively stable in high-temperature molding processing. Add mineral powder to slow down warping.
- PC 塑料與 GF 高結合相容，高耐衝，降低浮纖。  
 PC plastic is highly compatible with GF, has high impact resistance and reduces floating fibers.
- 此規格有添加相容劑，可提高相容極性，塑料產品射出後，再加工附著、黏著、包覆，結合度會提高許多。  
 This specification has a compatibilizer added to improve the polarity of the compatibility. After the plastic product is injected, it will be processed for attachment, adhesion, and coating, and the degree of bonding will be much improved.

**成型模式**                     射出成型  
**Forming mode**                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	%		16
比重 Specific Gravity	g/cm <sup>3</sup>	ASTM D792	1.29
流動指數 MFR,(MI) 300×2.16KG	g/10min	ASTM D1238	13
收縮率-平行    Mold Shrinkage MD	%	3 mm t	0.3
收縮率-垂直 ⊥ Mold Shrinkage TD			~0.5
耐燃性 Flammability		UL-94	V1
顏色 Color			Blackl color

PC BG5FD-N5 BK TDS 1/2



### 機械特性 Mechanical properties

伸張降伏強度 Tensile Strength at Yield			850
伸張斷裂強度 Tensile Strength at Break	kg/ cm <sup>2</sup>	ASTM D638	660
拉伸模數 Tensile Modulus			32000
斷裂伸張率 Tensile Elongation at Break	%		4.5
彎曲強度 Flexural Strength	kg/ cm <sup>2</sup>	ASTM D790	1390
彎曲模數 Flexural Modulus			42500
衝擊強度(缺口式)IZOD Impact (notched)	23°C kg-cm/cm	ASTM D256	14.5
硬度 Rockwell/Shore Hardness	D	ASTM D785/D2240	77

### 熱力特性 Heat properties

熱變型溫度 18.54kg/ cm <sup>2</sup> H D T	°C	ASTM D648	140
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### 電氣特性 Electrical properties

體積固有阻抗 Volume inherent impedance	Ω-cm	ASTM D257	10 <sup>14</sup>
表面阻抗 Surface resistivity	Ω		10 <sup>14</sup>

### 成型條件 Molding conditions

烘乾溫度 Drying temp. °C	100	烘乾時間 Drying time H	4
進料區溫度 Feed zone temp. °C	265~295	壓縮區溫度 Compression zone temp. °C	275~300
計量區溫度 Metering zone temp. °C	285~300	噴嘴溫度 Nozzle temp. °C	285~300
模具溫度 Mold temp. °C	100	射出壓力 Injection pressure Kg/ cm <sup>2</sup>	900~1600

\*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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