

技術資料表 Technical Data Sheet

BGNTYPE

高剛性強化、耐熱、熱安定，高耐衝，低浮纖，高黑度，流動性佳
High rigidity reinforcement, heat resistance, thermal stability,
high impact resistance, low floating fiber, high blackness,
good fluidity

樹脂 Resin	PC Polycarbonate
規格 Grade	BG56-N1 BK
來源 source	上禾伸企業

描述 Description

■添加 30%GF 高剛性強化，耐熱 144°C，高溫成型加工相對穩定。

Added 30% GF for high rigidity reinforcement, heat resistance of 144°C, and relatively stable high-temperature molding processing.

■PC 塑料與 GF 高結合相容，物性有一定水準之上，高耐衝、高流動，低浮纖。

PC plastic is highly compatible with GF, and its physical properties are above a certain level, with high impact resistance, high flow, and low 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	測試標準 Testing standards	單位 Unit	標準數值 Typical Value
填充劑含量 Filler Content		%	30
比重 Specific Gravity	ASTM D792	g/cm ³	1.41
流動指數 MFR,(MI) 300×2.16KG	ASTM D1238	g/10min	14
收縮率-平行 Mold Shrinkage MD	3 mm t	%	0.1
收縮率-垂直 ⊥ Mold Shrinkage TD			~0.4
耐燃性 Flammability	UL-94		V1
顏色 Color			Black color

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機械特性 Mechanical properties

伸張降伏強度 Tensile Strength at Yield			1250
伸張斷裂強度 Tensile Strength at Break		kg/ cm ²	950
拉伸模數 Tensile Modulus	ASTM D638		45500
斷裂伸張率 Tensile Elongation at Break		%	3.3
彎曲強度 Flexural Strength			1950
彎曲模數 Flexural Modulus	ASTM D790	kg/ cm ²	78500
衝擊強度(缺口式)IZOD Impact (notched)	ASTM D256	23°C kg-cm/cm	18.0
硬度 Rockwell/Shore Hardness	ASTM D785/D2240	D	80

熱力特性 Heat properties

熱變形溫度 18.54kg/ cm ²			
Heat distortion temperature H D T	ASTM D648	°C	144
熔融溫度 Melting temperature	DSC		**

電氣特性 Electrical properties

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

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 ²	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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