



技術資料表
Technical Data Sheet

BGNCTYPE

剛性高強化、耐熱，奈米碳管填充導電、靜電消散、抗靜電規格
Highly rigid, heat-resistant, filled with carbon nanotubes for conductivity, static dissipation, and anti-static specifications

樹脂 **Resin** PC Polycarbonate
規格 **Grade** BNC5Z-E41 BK
來源 **source** 上禾伸企業

描述 Description

- 奈米碳管填充導電、靜電消散、抗靜電。
Carbon nanotube filling is conductive, static dissipative, and antistatic.
- 30%GF 添加· 剛性高強化· 耐熱熱變形溫度 140°C。
30% GF added, high rigidity and heat resistance, heat distortion temperature 140°C.

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	%		30
比重 Specific Gravity	g/cm ³	ASTM D792	1.41
流動指數 MFR,(MI) 300×2.16KG	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			Black



機械特性 Mechanical properties

伸張降伏強度 Tensile Strength at Yield	kg/ cm ²		1350
伸張斷裂強度 Tensile Strength at Break		ASTM D638	1100
斷裂伸張率 Tensile Elongation at Break	%		3
彎曲強度 Flexural Strength	kg/ cm ²	ASTM D790	2000
彎曲模數 Flexural Modulus			82000
衝擊強度(缺口式)IZOD Impact (notched)	23°C kg-cm/cm	ASTM D256	9.5

熱力特性 Heat properties

熱變型溫度 18.54kg/ cm ² 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		10 ⁴⁻⁶
表面阻抗 Surface resistivity	Ω	ASTM D257	10 ⁴⁻⁶

成型條件 Molding conditions

烘乾溫度 Drying temp. °C	120	烘乾時間 Drying time H	4-8
進料區溫度 Feed zone temp. °C	250-280	壓縮區溫度 Compression zone temp. °C	260-300
計量區溫度 Metering zone temp. °C	265-300	噴嘴溫度 Nozzle temp. °C	265-300
模具溫度 Mold temp. °C	70-100	射出壓力 Injection pressure Kg/ cm ²	**

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