



技術資料表
Technical Data Sheet

AGNCTYPE

剛性強化、耐熱，奈米碳管複合，永久低導電、靜電消散、抗靜電，
高清潔度規格

Rigidity enhancement, heat resistance, carbon nanotube
composite, permanent low conductivity, static dissipation,
antistatic, high cleanliness specifications

樹脂 Resin	PP Polypropylene
規格 Grade	AGNC58D-M4 BK
來源 source	上禾伸企業

描述 Description

■ 添加 40%GF 剛性強化、耐熱提升。可承重、抗重壓，耐溫可達 160°C。

Add 40% GF for rigidity and heat resistance. It can bear loads, resist heavy pressure, and can withstand temperatures up to 160°C.

■ CNT 奈米碳管填充，永久型低導電、抗靜電，靜電消散，阻抗達 10^{3-5} ，阻抗高穩定性，且高清潔度，使用期間不會產生黑色痕跡，與產生黑色粉塵，影響產品、環境清潔度。

CNT nanotube filling, permanent low conductivity, antistatic, static dissipation, impedance up to 10^{3-5} , high impedance stability, and high cleanliness. No black marks or black dust will be produced during use, affecting the cleanliness of the product and the environment.

■ 可抗中酸、強鹼，抗藥性優，耐化學性。

It is resistant to moderate acid and strong alkali, has excellent drug resistance and chemical resistance.

■ 耐水性佳，電氣絕緣特性良好。

Good water resistance and electrical insulation properties.

■ 加工成型容易，低耗能源。

It is easy to process and form, and consumes less energy.

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		%	40
比重 Specific Gravity	ASTM D792	g/cm ³	1.27
流動指數 MFR,(MI) 230×2.16KG	ASTM D1238	g/10min	5
收縮率-平行 Mold Shrinkage MD	3 mm t	%	0.3
收縮率-垂直 ⊥ Mold Shrinkage TD			~0.4
耐燃性 Flammability	UL-94		HB
顏色 Color			Black color

機械特性 Mechanical properties

伸張降伏強度 Tensile Strength at Yield	ASTM D638	kg/ cm ²	1050
伸張斷裂強度 Tensile Strength at Break			850
拉伸模數 Tensile Modulus			41000
斷裂伸張率 Tensile Elongation at Break	ASTM D790	%	3.0
彎曲強度 Flexural Strength		kg/ cm ²	1500
彎曲模數 Flexural Modulus			74000
衝擊強度(缺口式)IZOD Impact (notched)	ASTM D256	23°C kg-cm/cm	9
硬度 Rockwell/Shore Hardness	ASTM D785/D2240	D	74

熱力特性 Heat properties

熱變形溫度 18.54kg/ cm ²	ASTM D648	°C	133
Heat distortion temperature H D T			
熱變形溫度 4.6kg/ cm ²			160
Heat distortion temperature H D T	DSC		165
熔融溫度 Melting temperature			

電氣特性 Electrical properties

體積固有阻抗 Volume inherent impedance	ASTM D257	Ω·cm	10 ⁻⁶
表面阻抗 Surface resistivity		Ω	10 ⁻⁶

成型條件 Molding conditions

烘乾溫度 Drying temp. °C	100	烘乾時間 Drying time H	1
進料區溫度 Feed zone temp. °C	175~190	壓縮區溫度 Compression zone temp. °C	180~195
計量區溫度 Metering zone temp. °C	185~200	噴嘴溫度 Nozzle temp. °C	180~205
模具溫度 Mold temp. °C	65	射出壓力 Injection pressure Kg/ cm ²	400~800

*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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