

技術資料表 Technical Data Sheet

WACTYPE

碳纖維剛性強化、永久抗靜電、靜電消散，低導電，長期耐熱，阻燃
Carbon fiber rigidity enhancement, permanent antistatic,
static dissipation, low conductivity, long-term heat resistance,
flame retardant

樹酯 Resin	PESU Polyether sulfone
規格 Grade	WAC12-A1 BK
來源 source	上禾伸企業

描述 Description

■添加 10%無機性碳纖維，剛性強化，永久抗靜電、靜電消散，低導電。

Add 10% inorganic carbon fiber to enhance rigidity, permanently antistatic, static dissipative, and low conductivity.

■熱變形溫度達 205°C，高 TG 點 220°C，且可持續在高溫 170~180°C環境中使用，長期使用耐熱溫度高。

The heat deformation temperature reaches 205°C, the highest TG point is 220°C, and it can be used continuously in a high temperature environment of 170~180°C, with high heat resistance for long-term use.

■剛性好、機械强度高，尺寸高度穩定。

Good rigidity, high mechanical strength and highly stable dimensions.

■優異的耐水解性，與良好的耐化學性，抗藥性佳，耐強鹼性佳。

Excellent hydrolysis resistance, good chemical resistance, good drug resistance, and good alkali resistance.

■極佳的阻燃性能，具有自熄性，在不添加阻燃劑的情況下可實現高達 UL94 V-0 級的阻燃性。

Excellent flame retardant performance, self-extinguishing, and can achieve flame retardancy up to UL94 V-0 without adding flame retardants.

成型模式	射出成型
Forming mode	Injection Molding

特性 Properties

填充劑含量 Filler Content	%		10
比重 Specific Gravity	g/cm ³	ASTM D792	1.39
流動指數 MFR,(MI) 380×2.16KG	g/10min	ASTM D1238	15
收縮率-平行 Mold Shrinkage MD			0.2
	%	3 mm t	~0.5
收縮率-垂直 ⊥ Mold Shrinkage TD			
耐燃性 Flammability		UL-94	V0 1.5mm
顏色 Color			Black

機械特性 Mechanical properties

伸張強度 Tensile Strength	kg/ cm ²	ASTM D638	1400
斷裂伸張率 Tensile Elongation at Break	%		2.5
彎曲強度 Flexural Strength	kg/ cm ²	ASTM D790	2050
彎曲模數 Flexural Modulus			82000
衝擊強度(缺口式) IZOD Impact (notched)	23°C -40°C	kg-cm/cm	ASTM D256
			6.5 **

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	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	150	烘乾時間 Drying time H	6
進料區溫度 Feed zone temp. °C	345~365	壓縮區溫度 Compression zone temp. °C	345~365
計量區溫度 Metering zone temp. °C	350~370	噴嘴溫度 Nozzle temp. °C	355~375
模具溫度 Mold temp. °C	135~170	射出壓力 Injection pressure Kg/ cm ²	700~1100

*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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