



技術資料表  
Technical Data Sheet

## DGRUTYPE

常溫耐衝擊佳、高耐寒低溫，剛性強化、耐熱強化，低浮纖良表面，  
低尺寸收縮，抗 UV 耐候戶外用，深黑色級

Good impact resistance at normal temperature, high cold and low temperature resistance, enhanced rigidity and heat resistance, low floating fiber and good surface, low dimensional shrinkage, UV and weather resistance for outdoor use, deep black grade

樹脂 Resin PA6 Polyamide6  
規格 Grade DGRU561A-N6 BK  
來源 source 上禾伸企業

### 描述 Description

■優良的耐低溫特性，可耐寒-40°C，與常溫耐衝擊性。

Excellent low temperature resistance, can withstand cold -40°C, and has the same impact resistance at normal temperature.

■添加 30%無機性玻璃纖維，剛性強化、耐熱強化。使用低浮纖配方，使產品外觀穩定，降低塑料複合量多玻纖時，容易造成的產品外觀浮纖現象。

Add 30% inorganic glass fiber to strengthen rigidity and heat resistance. The use of low floating fiber formula makes the appearance of the product stable and reduces the floating fiber phenomenon that is easily caused when the plastic compound amount is too much glass fiber.

■添加複合配方之抗 UV 劑、抗氧化劑、光線吸收劑(光安定劑)，可保護尼龍塑料產品使用於戶外，抵抗熱溫度、UV 光線、空氣的破壞分子鏈、結構，延長產品使用之壽命。

Adding a compound formula of anti-UV agents, antioxidants, and light absorbers (light stabilizers) can protect nylon plastic products when used outdoors, resist damage to molecular chains and structures by heat, UV light, and air, and extend the life of the product.

■尺寸安定，收縮率低。耐化學性、耐油性佳。

Stable size and low shrinkage. Good chemical resistance and oil resistance.

■耐磨耗，耐刮擦，表面平滑。耐彎曲、反撥彈性佳。

Wear-resistant, scratch-resistant, smooth surface. Bending resistance, good rebound elasticity.

■成型容易、快速，脫模週期短。

Forming is easy and fast, and the demolding cycle is short.



### 用途 Use :

運動器材:雪靴、溜冰鞋、直排輪、自行車零配件。

Sports equipment: snow boots, roller skates, inline rollers, bicycle spare parts.

保護安全用品:護目鏡架、護膝、護肘、護襠。

Protective safety supplies: goggle holder, knee pads, elbow pads, crotch pads.

傢俱用品零件:椅腳、椅輪、減震用品。

Furniture parts: chair legs, chair wheels, shock absorbers.

電動工具、五金用品、機械零配件、嬰兒車用品、動態零件。

Power tools, hardware supplies, mechanical spare parts, baby carriage supplies, dynamic parts.

### 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 <sup>3</sup>	ASTM D792	1.32
流動指數 MFR,(MI) 275×2.16KG	g/10min	ASTM D1238	15
收縮率-平行    Mold Shrinkage MD	%	3 mm t	0.3
收縮率-垂直 ⊥ Mold Shrinkage TD			~0.8
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			1200
伸張斷裂強度 Tensile Strength at Break	kg/ cm <sup>2</sup>	ASTM D638	1000
拉伸彈性係數 Tensile Modulus			47000
斷裂伸張率 Tensile Elongation at Break	%		3.5
彎曲強度 Flexural Strength	kg/ cm <sup>2</sup>	ASTM D790	2000
彎曲模數 Flexural Modulus			73000
衝擊強度(缺口式)IZOD Impact (notched)	23°C -40°C	kg-cm/cm	ASTM D256
			22.5 14
硬度 Rockwell/Shore Hardness	D	ASTM D2240	76

### 熱力特性 Heat properties

熱變型溫度 18.54kg/ cm <sup>2</sup> H D T	°C	ASTM D648	185
熱變型溫度 4.6kg/ cm <sup>2</sup> H D T			200
塑料狀態 plastic state			乾燥 dry



上禾伸企業有限公司

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### 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	210~225	壓縮區溫度 Compression zone temp. °C	220~235
計量區溫度 Metering zone temp. °C	225~245	噴嘴溫度 Nozzle temp. °C	225~255
模具溫度 Mold temp. °C	85	射出壓力 Injection pressure Kg/ cm <sup>2</sup>	450~1300

\*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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