



技術數據表 Technical Data Sheet

■ 產品敘述 Product Description :

- ✓ MCT6040SC 為 40%回收碳纖維/回收尼龍 6 複合塑膠，具有優異的剛性。
- ✓ PA6 由海洋回收經散聚為 PA6 單體(己內醯胺)後，再經過化學聚合成為 PA6。
- ✓ 碳纖維主要回收來源為 PIR(Post-Industrial Recycled)碳纖維
- ✓ 回收總含量>50%
- ✓ MCT6040SC is a recycled nylon 6 reinforced with 40% recycled carbon fiber. This grade is with high rigidity properties.
- ✓ After PA6 is recovered from the ocean, it is dispersed into PA6 monomer (caprolactam), and then chemically polymerized into PA6.
- ✓ The main sources of carbon fiber recycling are PIR (Post-Industrial Recycled) carbon fiber
- ✓ Total recycled content>50%

■ 主要應用-戶外運動用品 Key Applications-Outdoor sporting goods

- ✓ 自行車卡鞋底座(Bicycle card shoe base)
- ✓ 溜冰鞋底座(Skate basewheelchair)
- ✓ 打氣筒(Inflator)
- ✓ 園藝工具(Garden tools)
- ✓ 電熱器外殼(Heater housings)
- ✓ 墊片(Gaskets)



品名(Model/Name): **MCT6040SC**

項目(Item)	測試方法 (Test Method)	單位(Unit)	乾燥/回潮 (dry / cond)
機械性能(Mechanical)			
缺口衝擊強度 Notched Izod Impact	ASTM D256	1/8" · 23°C 1/8" · -20°C	kg-cm/cm 15/- -/-
拉伸強度 Tensile Strength	ASTM D638	50 mm/min	kg/cm ² 1,900/-
斷裂伸長率 Elongation	ASTM D638	50 mm/min	% /-
抗折強度 Flexural Strength	ASTM D790	1.3 mm/min	kg/cm ² 3,300/-
抗折模數 Flexural Modulus	ASTM D790	1.3mm/min	kg/cm ² 207,000/-
熱性能(Thermal)			
熱變形溫度 Deflection Temperature	ASTM D648	264psi,3.2 mm unannealed	°C -
熱傳導係數 Thermal Conductivity	ISO 22007-2	-	W/m.k -
阻燃性(Flammability Testing)			
抗延燒測試 Fire Propagation	UL-94	5VA	mm -
垂直燃燒測試 Vertical Flame Test	UL-94	V-0	mm -
其他(Other)			
外觀 Appearance	目視	-	- 本色 Nature
熔融指數 Melt Flow Index	ASTM D1238	250°C/2.16 kg	g/10 min -/-



比重 Specific Gravity	ASTM D792	23°C	-	1.332/-
尺寸收縮率(MD) Mold Shrinkage			%	0.2/-
尺寸收縮率(TD) Mold Shrinkage	ASTM D995		%	1.9/-
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	乾燥溫度 Drying temp.		°C	80-100
	乾燥時間 Drying time		hr	4
	最大含水率 Maximum Moisture Content		%	0.3
	料管溫度 Melt temp.			250-240
成型條件 Molding condition	入料段 Zone 1 temp.			240
	第二段 Zone 2 temp.		°C	250
	第三段 Zone 3 temp.			250
	第四段 Zone 4 temp.			250
	模具溫度 Mold temp.			100
	射出壓力 Inject. press.		%	50
	射出速度 Inject. velocity.			20-30

Based on our best knowledge, this document is believed to be reliable information. However, these results will be vary from lab to lab, and will be dependent on molding techniques, sample preparation and testing methods. Because of variations in the methods, condition and equipment used commercially in processing this product, no warranties and guarantees are made as to be suitability of products for the applications disclosed. We recommend that each application be evaluated to assess the suitability of the product to meet specific requirements. CPL does not assume any liability that may result from the use of the document.