



技術資料表 Technical Data Sheet

DGFITYPE

遠紅外線塑料,耐熱、剛性強化級 Far-infrared plastic, heat-resistant, rigid reinforced grade

樹酯 Resin PA6 Polyamide6

規格 Grade DGFI53B-D3

來源 source 上禾伸企業

描述 Description

遠紅外線為不可視光線的一種,波長在4微米~1000微米之間,其中以4~20微米的範圍對人體最有益。遠紅外線的特性是能深入人體內部的組織,促進人體內細胞的水分子產生一種共振,賦予細胞生命力,加速血液循環,活化新陳代謝,增進組織再生的能力,活化免疫系統,並且能有效的抑制老化。

上禾伸企業有限公司利用 PA6 樹脂為基材,將植於遠紅外線陶瓷粉上,之生育光波來源貴金屬白金奈米化 (粒徑小於 20nm),與樹脂結合成室溫下即可釋放出生育光波 ($4~14\mu m$,接近人體釋放的 9.36μ m 電磁波),可與人體產生共振效果,具有強力促進新陳代謝、活血健身的良好效果。適合用於保健、保溫及醫療等產品上。

Infrared is a kind of invisible light with wavelengths between 4 microns and 1000 microns, of which the range of 4 to 20 microns is the most beneficial to the human body. The characteristics of far infrared rays are that they can penetrate deep into the tissues of the human body, promote a resonance of water molecules in the cells of the human body, endow cells with vitality, accelerate blood circulation, activate metabolism, enhance the ability of tissue regeneration, activate the immune system, and can effectively inhibit aging.

Shang He Shen Enterprise Co., Ltd. uses PA6 resin as the base material, which is planted on the far-infrared ceramic powder. The source of the growth light wave is the precious metal platinum nanometer (the particle size is less than 20nm), which can be combined with the resin to release the growth at room temperature. Light waves ($4\sim14\mu m$, close to the 9.36 μm electromagnetic waves released by the human body) can resonate with the human body, and have the good effect of strongly promoting metabolism, promoting blood circulation and fitness. Suitable for use in health care, thermal insulation and medical products.

■玻璃纖維添加 15%,剛性、耐熱強化

15% glass fiber added, rigid and heat-resistant

成型模式 射出成型

Forming mode Injection Molding

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特性 Properties

10 II 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	%		-	15
比重 Specific Gravity	g/cm³		ASTM D792	1.23
流動指數 MFR,(MI) 260×2.16KG	g/10min		ASTM D1238	30
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				natural color
機械特性 Mechanical properties				
伸張降伏強度 Tensile Strength at Yield				1120
伸張斷裂強度 Tensile Strength at Break	kg/ cm²		ASTM D638	900
拉伸彈性係數 Tensile Modulus				44300
斷裂伸張率 Tensile Elongation at Break		%		2.5
彎曲強度 Flexural Strength	kg/ cm²		ASTM D790	1850
彎曲模數 Flexural Modulus				50000
衝擊強度(缺口式)IZOD Impact (notched)	23°C kg-cm/cm		ASTM D256	4.0
硬度 Rockwell/Shore Hardness		R	ASTM D785	120
熱力特性 Heat properties				
熱變型溫度 18.54kg/cm² HDT	°C		ASTM D648	170
熱變型溫度 4.6kg/ cm² HDT			A311VI D048	200
塑料狀態 plastic state				乾燥 dry
成型條件 Molding conditions				
烘乾溫度 Drying temp. ℃	100 烘乾時間 Drying 210~225 壓縮區溫度 Com 225~245 噴嘴溫度 Nozzle		ig time H	4
進料區溫度 Feed zone temp. ℃			pression zone temp. °C	220~235
計量區溫度 Metering zone temp. ℃			le temp. ℃	225~255
模具溫度 Mold temp. ℃	85 射出壓力 Injection pressure Kg/ cm²		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。

Although the above information is made in good faith and is believed to be accurate, we do not guarantee reliance on such information to obtain satisfactory results, and we do not assume full responsibility for any loss or damage caused by the use of such information. The above values are for reference only for the selected grade.

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