

技術資料表
Technical Data Sheet

BSTYPE

透明，常溫高耐衝、超高低溫耐寒規格、低溫超高延伸率級
Transparent, high impact resistance at room temperature,
ultra-high and low temperature cold resistance, low
temperature ultra-high elongation grade

樹脂 Resin PC Polycarbonate
規格 Grade BS114-C8T
來源 source 上禾伸企業

描述 Description

■透明級，透光率(厚度 2.5mm)可達 80%以上。

Transparent grade, light transmittance (thickness 2.5mm) can reach over 80%.

■常溫超高耐衝級性能，且具超高低溫耐衝級，可設定常態使用於低溫-30°C以下之產品。在低溫-40°C的環境中，可保持非常高的延伸率。

It has ultra-high impact resistance at room temperature and ultra-low temperature impact resistance, and can be set to be used in products with low temperatures below -30°C. In a low temperature environment of -40°C, it can maintain a very high elongation.

■耐撕裂、抗老化功能優勢，且具內應力緩和的特性，降低內應力開裂的情形發生。

It has the advantages of tear resistance and anti-aging, and has the characteristics of internal stress relaxation, reducing the occurrence of internal stress cracking.

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		%	**
比重 Specific Gravity	ASTM D792	g/cm ³	1.2
流動指數 MFR,(MI) 300×1.2KG	ASTM D1238	g/10min	11
收縮率-平行 Mold Shrinkage MD	3 mm t	%	0.4
收縮率-垂直 ⊥ Mold Shrinkage TD			~0.8
耐燃性 Flammability	UL 94		V2 2.5mm
顏色 Color			透明 transparent

PC BS114-C8T TDS 1/2

機械特性 Mechanical properties

伸張降伏強度 Tensile Strength at Yield		kg/ cm ²	580
伸張斷裂強度 Tensile Strength at Break	ASTM D638		600
斷裂伸張率 Tensile Elongation at Break		%	120
彎曲強度 Flexural Strength			930
彎曲模數 Flexural Modulus	ASTM D790	kg/ cm ²	22000
衝擊強度(缺口式)IZOD Impact (notched)		23°C kg-cm/cm	80
	ASTM D256	-30°C kg-cm/cm	70
衝擊強度(無缺口式)IZOD Impact (unnotched)		23°C kg-cm/cm	NB
		-30°C kg-cm/cm	NB

熱力特性 Heat properties

熱變形溫度 18.54kg/ cm ²			
Heat distortion temperature H D T	ASTM D648	°C	120
維卡軟化溫度 Vicat softening temperature	ASTM D1525		135

成型條件 Molding conditions

烘乾溫度 Drying temp. °C	120	烘乾時間 Drying time H	3~4
進料區溫度 Feed zone temp. °C	280~295	壓縮區溫度 Compression zone temp. °C	285~310
計量區溫度 Metering zone temp. °C	295~315	噴嘴溫度 Nozzle temp. °C	295~315
模具溫度 Mold temp. °C	70~95	射出壓力 Injection pressure Kg/ cm ²	**

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