

CHANG CHUN PLASTICS CO., LTD.

NO. 301, SONGKIANG ROAD, 7TH FL., TAIPEI, 10477 TAIWAN
TEL : (02) 2503-8131 (REF) FAX : (02) 2503-3378

Engineering Plastics Polybutylene Terephthalate

Technical Data

CCP PBT 1100-630S

PBT unreinforced medium viscosity injection moulding grade.

(PBT 1100-630S 為無玻璃纖維強化聚丁烯對苯二甲酸酯複合材料)

Characteristics 品質特性

- 1)excellent electrical property (優越的電氣性質)
- 2)excellent mechanic and chemical property (優越的機械與耐化學特性)
- 3)excellent weatherability (耐候性佳)
- 4)excellent wear property (耐磨耗性佳)
- 5)excellent moldability (優越的成型性)
- 6)High resistance to fuels, oil, fats and many solvents(高度抗燃料、抗油、抗脂及抗溶劑性)

Injection Moulding Condition 成型條件

Cylinder temperatures 料管溫度	: 230-260°C
Nozzle temperature 射嘴溫度	: 245-250°C
Mould temperature 模溫	: 30-100°C, suitable temperature 40-60°C
Injection rate 射速	: middle
Screw speed 螺桿轉速	: 60-120 rpm, to be chosen in such a way that plasticizing time is just within cooling time.
Pressure 壓力	Injection pressure : 500-1000 kg/cm ² 射壓
	Holding pressure : 300-700 kg/cm ² 保壓
	Back pressure : 0-3 kg/cm ² 背壓
Mould shrinkage 收縮率	Mould shrinkage 1.6 mm thickness is 1.2-1.8 % under the test method ASTM D955. 1.6mm 測試試片，收縮率為 1.2-1.8%.

Packaging 包裝

25 kg/paper bag or 850 kg/super sack. 紙袋包裝 25kg 或 850kg 太空袋包裝

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Property 品質特性	Value 測試值	Unit 單位	Test method ASTM
Melting Index (250°C×2.16kg)	18~22	g/10min	D1238
Specific gravity 比重	1.31	-	D792
Melting point 熔點	225	°C	DSC
Coef. of linear thermal expansion 線膨脹係數	9	10 ⁻⁵ cm/cm°C	D696
Heat deflection temperature under load 熱變型溫度			
--- 18.6 kg/cm ²	60	°C	D648
--- 4.6 kg/cm ²	155	°C	D648
Moisture absorption (24h) 吸水率	0.06	%	D570
Flammability acc. To UL94 (1.6 mm) 耐燃等級，厚度 1.6mm	HB	-	UL94
Tensile strength 引張強度	550	kg/cm ²	D638
Tensile elongation 引張伸長率	80	%	D638
Flexural strength 撓曲強度	850	kg/cm ²	D790
Flexural modulus 撓曲彈性率	24500	kg/cm ²	D790
Izod impact strength - notched 1/4" 缺口衝擊強度	2.8	kg-cm/cm	D256
Hardness – rockwell 硬度	117	R	D785
Dielectric strength, 絕緣破壞強度	20	KV/mm	D149
Volume resistivity 體積阻抗率	10 ¹⁵	Ω-cm	D257
Surface resistivity 表面阻抗率	10 ¹³	Ω	D257
Dielectric constant 誘電率	3.3	60Hz	D150
Dielectric dissipation factor 誘電正接	0.001	60Hz	D150
Arc resistance 耐電弧	120	SEC	D495

(1) For reference only

(2) All data in the table are the typical values of the material and not the minimum values of the material specifications.

※表中測試數據僅作參考用，非制定之規格值。