

CHANG CHUN PLASTICS CO., LTD.

NO. 301, SONGKIANG ROAD, 7TH FL., TAIPEI, 10477 TAIWAN
TEL : 886-2-2503-8131 (REF) FAX : 886-2- 2501-8018

Engineering Plastics Polybutylene Terephthalate

PBT 1100-211LC1 Technical Data

CCP PBT 1100-211LC1

PBT 1100-211LC1 is a unreinforced injection moulding grade.

(PBT 1100-211LC1 為無玻璃纖維強化聚丁烯對苯二甲酸酯複合材料)

Characteristics 特性

- 1)Excellent electrical property(優越的電氣性質)
- 2)Excellent mechanic and chemical property(優越的機械強度與耐化性)
- 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)Excellent flowability(優越的流動性)
- 7)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 射出成型條件

Cylinder temperatures : 230-260°C
(料管溫度)

Nozzle temperature : 250-260°C
(射嘴溫度)

Mould temperature(模溫) : 40-120°C, suitable temperature 60-80°C

Injection rate(射速) : middle – fast

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(射壓) : 500-1200 kg/cm²

Holding pressure(保壓) : 300-800 kg/cm²

Back pressure(背壓) : 0-3 kg/cm²

Mould shrinkage (模收縮) Mould shrinkage 1.6 mm thickness horizon is 0.8-1.9% and vertical is 1.2-2.1% under the test method ASTM D955.

模收縮試片厚度 1.6mm，流動方向收縮率為 0.8-1.9%，垂直方向收縮率為 1.2-2.1%

Packaging(包裝)

25 kg/ paper bag . (25 公斤紙袋裝)

Material handing

Moisture pick-up from ambient air should be avoided. Keep hopper properly closed.

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Property 物性	Value 測試值	Unit 單位	Test method 測試方法 ASTM
Glass Fiber Content(玻纖含量)	0	%	CCP
Specific gravity(比重)	1.30	-	D792
Melting point(熔點)	225	°C	DSC
Heat deflection temperature under load (熱變形溫度)			
--- 18.6 kg/cm ²	55	°C	D648
--- 4.6 kg/cm ²	155	°C	D648
Moisture absorption (23°C,24h) (吸濕率)	0.06	%	D570
Flammability acc. to UL94, 3.0 mm thickness (耐燃性)	HB	-	UL94
Tensile strength(引張強度)	535	kg/cm ²	D638
Tensile elongation(引張伸長率)	15	%	
Flexural strength(撓曲強度)	830	kg/cm ²	D790
Flexural modulus(撓曲模數)	23000	kg/cm ²	D790
Izod impact strength – notched 1/4” (衝擊強度)	3.3	kg-cm/cm	D256
Dielectric strength, 2 mm thickness (絕緣破壞強度)	20	kV/mm	D149
Volume resistivity(體積抵抗率)	10 ¹⁵	Ω-cm	D257
Surface resistivity(表面抵抗率)	10 ¹³	Ω	D257
Dielectric constant(介電常數)	3.3	60Hz	D150
Dielectric dissipation factor(誘電正接)	0.002	60Hz	D150
Arc resistance(耐電弧)	90	Sec	D495

※ 表中測試數據僅作參考用，非制定之規格值。

(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.