

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

Technical Data

CCP PBT 3020-201

PBT glass fiber 20% reinforced injection moulding grade.

(20% 玻纖 強化聚丁烯對苯二甲酸酯)

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)low warpage(低翹曲)
- 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 : 240-270°C

(料管溫度)

Nozzle temperature : 260-270°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 0.2-0.6% and vertical is 0.8-1.6% under the test method ASTM D955.

模收縮試片厚度 1.6mm，流動方向收縮率為 0.2-0.6%，垂直方向收縮率為 0.8-1.6%

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.

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

CCP PBT 3020-201

Property (物性)	Value (規格值)	Unit (單位)	Test method (測試方法)
ASTM			
Glass Fiber Content(玻纖含量)	20	%	CCP
Specific gravity(比重)	1.44	-	D792
Melting point(熔點)	225	°C	DSC
Coef. Of linear thermal expansion (熱膨脹係數)	3	10 ⁻⁵ cm/cm°C	D696
Heat deflection temperature under load	熱變形溫度		
--- 18.6 kg/cm ²	207	°C	D648
--- 4.6 kg//cm ²	220	°C	D648
Moisture absorption (24h)(吸濕率)	0.04	%	D570
Flammability acc. to UL94, 0.8 mm thickness (耐燃性)	HB	-	UL94 (CCP test)
Tensile strength(引張強度)	1100	kg/cm ²	D638
Tensile elongation(引張伸長率)	4.2	%	D638
Flexural strength(撓曲強度)	1700	kg/cm ²	D790
Flexural modulus(撓曲模數)	61000	kg/cm ²	D790
Izod impact strength - notched 1/4" (衝擊強度)	7.2	kg-cm/cm	D256
Hardness – Rockwell(洛氏硬度)	120	R	D785
Dielectric strength, 2 mm thickness (絕緣破壞強度)	22	KV/mm	D149
Volume resistivity(體積抵抗率)	10 ¹⁵	Ω-cm	D257
Surface resistivity(表面抵抗率)	10 ¹²	Ω	D257
Dielectric constant(介電常數)	3.7	60Hz	D150
Dielectric dissipation factor(誘電正接)	0.001	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.