

# CHANG CHUN PLASTICS CO., LTD.

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

## Engineering Plastics Polybutylene Terephthalate

### Technical Data

#### CCP PBT 6730-NC

PBT glass/mineral reinforced injection moulding grade.

(玻纖/礦物 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 : 250-280°C

(料管溫度)

Nozzle temperature : 270-280°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/cm<sup>2</sup>

Holding pressure(保壓) : 300-800 kg/cm<sup>2</sup>

Back pressure(背壓) : 0-3 kg/cm<sup>2</sup>

Mould shrinkage(模收縮) Mould shrinkage 1.6 mm thickness horizon is 0.1-0.3% and vertical is 0.3-0.6% under the test method ASTM D955.

模收縮試片厚度 1.6mm，流動方向收縮率為 0.1-0.3%，垂直方向收縮率為 0.7-1.2%

#### 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 (規格值)	Unit (單位)	Test method (測試方法) ASTM
Ash Content(灰份)	30	%	
Specific gravity(比重)	1.59	-	D792
Melting point(熔點)	225	°C	DSC
Coef. of linear thermal expansion (熱線膨脹係數)	2.5	10 <sup>-5</sup> cm/cm°C	D696
Heat deflection temperature under load (熱變形溫度)			
--- 18.6 kg/cm <sup>2</sup>	138	°C	D648
--- 4.6 kg/cm <sup>2</sup>	200	°C	D648
Moisture absorption (24h)(吸濕率)	0.03	%	D570
Flammability acc. to UL94, 0.8 mm thickness (耐燃性)	V-0	-	UL94
Tensile strength(引張強度)	990	kg/cm <sup>2</sup>	D638
Tensile elongation(引張伸長率)	3.3	%	D638
Flexural strength(撓曲強度)	1450	kg/cm <sup>2</sup>	D790
Flexural modulus(撓曲模數)	73000	kg/cm <sup>2</sup>	D790
Izod impact strength - notched 1/4" (衝擊強度)	8.5	kg-cm/cm	D256
Hardness(硬度) - rockwell	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 <sup>16</sup>	Ω-cm	D257
Surface resistivity(表面抵抗率)	10 <sup>13</sup>	Ω	D257
Dielectric constant(介電常數)	3.5	60Hz	D150
Dielectric dissipation factor(誘電正接)	0.001	60Hz	D150
Arc resistance(耐電弧性)	80	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。