

# 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 6730-104F**

PBT glass & mineral 30% reinforced injection moulding grade.

(30% 玻纖/礦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 : 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 handling**

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

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### CCP PBT 6730-104F

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)	1.60	-	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)	1050	kg/cm <sup>2</sup>	D638
Tensile elongation(引張伸長率)	3.2	%	D638
Flexural strength(撓曲強度)	1550	kg/cm <sup>2</sup>	D790
Flexural modulus(撓曲模數)	80000	kg/cm <sup>2</sup>	D790
Izod impact strength - notched 1/4" (衝擊強度)	7.4	kg.cm/cm	D256
Hardness(硬度) - rockwell	94	M	D785
Dielectric strength, 2 mm thickness (絕緣破壞強度)	20	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