

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 5615-104A Technical Data

CCP PBT 5615-104A

PBT 5615-104A is a 15% glass fiber reinforced injection molding grade.

PBT5615-104A 為 15%玻璃纖維強化耐燃級聚丁烯對苯二甲酸酯複合材料

Characteristics 品質特性

- 1)halogen-free 無鹵
- 2)excellent electrical property 優越的電氣性質
- 3)excellent temperature resistance, high heat distortion temperature. 優越的耐溫性及高熱變形溫度
- 4)excellent mechanic and chemical property 優越的機械與耐化學特性
- 5)excellent weatherability 耐候性佳
- 6)excellent wear property 耐磨耗性佳
- 7)excellent moldability 優越的成型性
- 8)High resistance to fuels, oil, fats and many solvents 高抗燃料、油料、溶劑特性

Injection Moulding Condition

Cylinder temperatures 料管溫度	: 240-270°C	
Nozzle temperature 射嘴溫度	: 260-270°C	
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 ²
	Holding pressure 保壓	: 300-800 kg/cm ²
	Back pressure 背壓	: 0-3 kg/cm ²
Mould shrinkage 收縮率	Mould shrinkage 1.6 mm thickness horizon is 0.3-0.6% and vertical is 0.6-1.2% under the test method ASTM D955. 1.6mm 測試試片，流動方向收縮率為 0.3-0.6%，垂直方向收縮率為 0.6-1.2%	

Packaging 包裝

25 kg/ paper bag . 紙袋包裝 25kg

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Property 品質特性	Value 測試值	Unit 單位	Test method ASTM
Glass Fiber Content 玻纖含量	15	%	
Specific gravity 比重	1.41	-	D792
Melting point 熔點	225	°C	DSC
Heat deflection temperature under load 熱變形溫度 --- 18.6 kg/cm ²	195	°C	D648
--- 4.6 kg/cm ²	210	°C	D648
Moisture absorption (24h) 吸水率	0.03	%	D570
Flammability acc. to UL94, 3.2 mm thickness 耐燃等級，厚度 3.2mm	V-0	-	UL94
Tensile strength 引張強度	800	kg/cm ²	D638
Tensile elongation 引張伸長率	3.5	%	D638
Flexural strength 撓曲強度	1300	kg/cm ²	D790
Flexural modulus 撓曲彈性率	55000	kg/cm ²	D790
Izod impact strength - notched 1/4" 衝擊強度	6.5	kg.cm/cm	D256
Dielectric strength, 2 mm 絕緣破壞強度	21	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	3.5	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。