

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 5630-104B Technical Data

CCP PBT 5630-104B

PBT 5630-104B is a 30% glass fiber reinforced injection molding grade.

PBT5630-104B 為 30%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 0.2-0.5% and vertical is 0.8-1.4% under the test method ASTM D955. 1.6mm 測試試片，流動方向收縮率為 0.2-0.5%，垂直方向收縮率為 0.8-1.4% | |

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 | 30 | % | |
| Specific gravity 比重 | 1.53 | - | D792 |
| Melting point 熔點 | 225 | °C | DSC |
| Heat deflection temperature under load 熱變形溫度 --- 18.6 kg/cm ² | 200 | °C | D648 |
| --- 4.6 kg/cm ² | 210 | °C | D648 |
| Moisture absorption (24h) 吸水率 | 0.03 | % | D570 |
| Flammability acc. to UL94, 1.6 mm thickness 耐燃等級，厚度 1.6mm | V-0 | - | UL94 |
| Tensile strength 引張強度 | 1100 | kg/cm ² | D638 |
| Tensile elongation 引張伸長率 | 3.0 | % | D638 |
| Flexural strength 撓曲強度 | 1700 | kg/cm ² | D790 |
| Flexural modulus 撓曲彈性率 | 85000 | kg/cm ² | D790 |
| Izod impact strength - notched 1/4" 衝擊強度 | 9.0 | kg.cm/cm | D256 |
| Dielectric strength, 2 mm 絕緣破壞強度 | 22 | 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 |
| Comparative Tracking Index 比較的痕跡指標 | 400 | Volts | D3638 |
| 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。