

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

台湾长春企业集团

PBT 4815NCB

Technical Data

Engineering Plastics

Polybutylene Terephthalate

CCP PBT4815NCB

PBT 4815NCB is a unreinforced injection moulding grade.

(15% 玻璃纤维强化难燃本色, 聚丁烯对苯二甲酸酯)

Characteristics(特性)

- 1)结晶快速,易成型;
- 2)融点高达 225℃,耐热性(耐热裂化)佳;
- 3)玻璃纤维强化,机械强度大;
- 4)吸水率低,尺寸安定性佳;
- 5)摩擦系数低,耐磨耗;
- 6)耐化学品、溶剂、耐候性好;
- 7)弯曲蠕变性质佳;
- 8)介电强度高,电气性质佳;
- 9)可超音波熔接,组立加工容易.

Injection Moulding Condition(射出成型条件)

Cylinder temperatures : 240-260℃

(料管温度)

Nozzle temperature : 255-270℃

(喷嘴温度)

Mould temperature(模温) : 80-120℃, suitable temperature 90-120℃

Injection rate(射速) : middle – fast (中——快)

Screw speed(螺杆转速) : 60-100 rpm, to be chosen in such a way that plasticizing time is just within cooling time.

Injection pressure(射压) : 500-1200 kg/cm²

Pressure(压力)

Holding pressure(保压) : 300-800 kg/cm²

Back pressure(背压) : 0-3 kg/cm²

Mould shrinkage 1.6 mm thickness horizon is

Mould shrinkage(缩水率) 0.2-0.5% and vertical is 0.8-1.4% under the test methodASTMD955

Packaging(包装)

25 kg/ paper bag(25 公斤纸袋装) .

Material handing

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

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Property (物性)	Value (规格值)	Unit (单位)	Test method (测试方法)
ASTM			
Glass Fiber Content (玻纤含量)	15	%	CCP
Specific gravity(比重)	1.45-1.49	-	D792
Melting point(熔点)	225	°C	DSC
HDT(热变形温度)			
--- 18.6 kg/cm ²	205	°C	D648
--- 4.6 kg/cm ²	220	°C	D648
Moisture absorption (24h)(吸湿率)	0.03	%	D570
Flammability acc. to UL94, 3.2 mm thickness (耐燃性)	V-0	-	UL94
Tensile strength(引张强度)	900-1100	MPa	D638
Tensile elongation(引张伸长率)	3.0-4.5	%	
Flexural strength(挠曲强度)	1300-1800	kg/cm ²	D790
Flexural modulus(挠曲模数)	≥50000	MPa	D790
Izod impact strength – notched 1/4" (冲击强度)	6-8	KJ/m ²	D256
Hardness - rockwell (洛氏硬度)	93	M-Scale	D785
Dielectric strength, 2 mm thickness (绝缘破坏强度)	>20	KV/mm	D149
Volume resistivity(体积抵抗率)	>10 ¹⁵	Ω-cm	D257
Surface resistivity(表面抵抗率)	>10 ¹³	Ω	D257
Dielectric constant((介电常数)	4.5	60Hz	D150
Dielectric dissipation factor(诱电正接)	0.001	60Hz	D150
Arc resistance(电弧抵抗率)	100	SEC	D495

※ 表中测试数据仅作参考用,非制定之规格值.

(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.