

# CHANG CHUN CHEMICAL(ZHANGZHOU) CO., LTD.

No.1 Baosheng Rd, Jiaomei Town, Taiwanese Investment Zone, Zhangzhou, Fujian, China  
TEL : 86-596-6269085 FAX : 86-596- 26269688

## Engineering Plastics Polybutylene Terephthalate

### PBT 4815BK Technical Data

#### CCP PBT 4815BK

PBT 4815BK is a glass fiber reinforced injection moulding grade.

PBT 4815BK 为玻璃纤维强化聚丁烯对苯二甲酸酯复合材料

#### Characteristics 品质特性

- 1)excellent electrical property 优越的电气性质
- 2)excellent mechanic and chemical property 优越的机械与耐化学特性
- 3)excellent weatherability 耐候性佳
- 4)excellent wear property 耐磨耗性佳
- 5)excellent moldability 优越的成型性
- 6)High resistance to fuels, oil, fats and many solvents 高抗燃料、油料、溶剂特性

#### Injection Moulding Condition

Cylinder temperatures : 240-270°C

料管温度

Nozzle temperature : 260-270°C

射嘴温度

Mould temperature : 40-120°C, suitable temperature 60-80°C

模温

Injection rate : middle – fast

射速

Screw speed : 60-120 rpm, to be chosen in such a way that  
plasticizing time is just within cooling time.

螺杆转速

Pressure Injection pressure : 500-1200 kg/cm<sup>2</sup>

压力

射压

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

保压

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

背压

Feed tube retention time : ≤2Minute

料管滞留时间

Drying: temperature\*time : 120°C\*4hr / 140°C\*3hr

烘料: 温度\*时间

#### Packaging 包装

25 kg/ paper bag 纸袋包装 25kg

#### Material handing

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

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Property 品质特性	Value 测试值	Unit 单位	Test method 测试方法
Ash 灰份	15	%	
Specific gravity 比重	1.48	g/cm <sup>3</sup>	ISO 1183
Melting point 熔点	225	°C	DSC
Heat deflection temperature under load 热变形温度 --- 1.8 MPa	190	°C	ISO 75
--- 0.45 MPa	215	°C	ISO 75
Moisture absorption (24h) 吸水率	0.03	%	
Flammability acc. to UL94, 3.0 mm thickness (耐燃性)	V-0	-	UL94
Tensile strength 引张强度	95	MPa	ISO 527
Tensile elongation 引张伸长率	3.0	%	ISO 527
Flexural strength 挠曲强度	135	MPa	ISO 178
Flexural modulus 挠曲弹性率	4500	MPa	ISO 178
Izod impact strength - notched 1/4"冲击强度	5.0	KJ/m <sup>2</sup>	ISO 179
Dielectric strength, 2 mm 绝缘破坏强度	20	KV/mm	IEC 243
Volume resistivity 体积阻抗率	10 <sup>15</sup>	Ω-cm	IEC 60093
Surface resistivity 表面阻抗率	10 <sup>12</sup>	Ω	IEC 60093

※表中测试数据仅供参考。

(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.