

# 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

### PBT 2000-104D Technical Data

#### CCP PBT 2000-104D

PBT 2000-104D is a unreinforced injection moulding grade.

#### Characteristics

- 1)excellent electrical property
- 2)excellent temperature resistance, high heat distortion temperature.
- 3)excellent mechanic and chemical property
- 4)excellent weatherability
- 5)excellent wear property
- 6)excellent moldability
- 7)High resistance to fuels, oil, fats and many solvents

#### Injection Moulding Condition

Cylinder temperatures	: 230-260°C
Nozzle temperature	: 250-260°C
Mould temperature	: 40-120°C , suitable temperature 60-80°C
Injection rate	: middle - fast
Screw speed	: 60-120 rpm, to be chosen in such a way that plasticizing time is just within cooling time.
Pressure	Injection pressure : 500-1200 kg/cm <sup>2</sup>
	Holding pressure : 300-800 kg/cm <sup>2</sup>
	Back pressure : 0-3 kg/cm <sup>2</sup>
Mould shrinkage	Mould shrinkage 1.6 mm thickness horizon is 0.9-1.8% and vertical is 1.2-2.1% under the test method ASTM D955.

#### Packaging

25 kg/ paper bag .

#### Material handing

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

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### CCP PBT 2000-104D

Property	Value	Unit	Test method ASTM
Glass Fiber Content	0	%	
Specific gravity	1.44	-	D792
Melting point	225	°C	DSC
Coef. of linear thermal expansion	9	10 <sup>-5</sup> cm/cm°C	D696
Heat deflection temperature under load			
--- 18.6 kg/cm <sup>2</sup>	65	°C	D648
--- 4.6 kg/cm <sup>2</sup>	165	°C	D648
Moisture absorption (24h)	0.05	%	D570
Flammability acc. to UL94, 0.8 mm thickness	V-0	-	UL94
Tensile strength	550	kg/cm <sup>2</sup>	D638
Tensile elongation	4.5	%	
Flexural strength	900	kg/cm <sup>2</sup>	D790
Flexural modulus	25000	kg/cm <sup>2</sup>	D790
Izod impact strength – notched 1/4"	3.0	kg.cm/cm	D256
Hardness - rockwell	80	M	D785
Dielectric strength, 2 mm thickness	20	KV/mm	D149
Volume resistivity	10 <sup>15</sup>	Ω-cm	D257
Surface resistivity	10 <sup>13</sup>	Ω	D257
Dielectric constant	3.3	60Hz	D150
Dielectric dissipation factor	0.001	60Hz	D150
Arc resistance	100	Sec	D495