

CHANG CHUN PLASTICS CO., LTD.

NO. 301, SONGKIANG ROAD, 7TH FL., TAIPEI, 10477 TAIWAN
TEL : (02) 2503-8131 (REF) FAX : (02) 2503-3378

Engineering Plastics Polybutylene Terephthalate

Technical Data

CCP PBT 1200-200M

PBT unreinforced middle viscosity 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℃
Nozzle temperature	: 245-250℃
Mould temperature	: 30-100℃, suitable temperature 40-60℃
Injection rate	: middle
Screw speed	: 60-120 rpm, to be chosen in such a way that plasticizing time is just within cooling time.
Pressure	Injection pressure : 500-1000 kg/cm ²
	Holding pressure : 300-700 kg/cm ²
	Back pressure : 0-3 kg/cm ²
Mould shrinkage	Mould shrinkage 2mm thickness is 1.2-1.8 % under the test method ISO 294-4.

Packaging

25 kg/paper bag.

Material handing

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

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Property	Value	Unit	Test method ISO
Specific gravity	1.31	-	1183
Melting point	225	°C	DSC
Coef. of linear thermal expansion	0.9	E-4/°C	11359
Heat deflection temperature under load			
--- 1.8MPa	55	°C	75
--- 0.45MPa	150	°C	75
Moisture absorption (24h)	0.06	%	62
Flammability acc. To UL94 (3.2 mm)	HB	-	UL94
Tensile strength	60	MPa	527
Tensile elongation	12	%	527
Flexural strength	85	MPa	178
Flexural modulus	2300	MPa	178
Notched charpy impact strength	4.5	kJ/m ²	179
Dielectric strength, 2 mm thickness	20	kV/mm	IEC 60243
Volume resistivity	10 ¹⁶	Ω-m	IEC 60093
Surface resistivity	10 ¹³	Ω	IEC 60093
Dielectric constant	3.3	60Hz	IEC60250
Dielectric dissipation factor	0.001	60Hz	IEC60250

(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.