

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 1100-600S Technical Data

CCP PBT 1100-600S

PBT 1100-600S is an unreinforced high viscosity injection molding 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 Molding Condition

Cylinder temperatures	: 230-265°C
Nozzle temperature	: 240-260°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 ²
	Holding pressure : 300-800 kg/cm ²
	Back pressure : 0-3 kg/cm ²
Mould shrinkage	Mould shrinkage 1.6 mm thickness is 1.0-2.0% under the test method ISO 294.

Packaging

25 kg/ paper bag or 850 kg/ super sack.

Material handing

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

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Property	Value	Unit	Test method
Density	1.30	g/cm ³	ISO 1183
Melt volume rate, 250°C/5.0kg	30	cm ³ /10min	ISO 1133
Melting point	225	°C	DSC
Heat deflection temperature under load			
--- 1.80 Mpa	60	°C	ISO 75
--- 0.45 Mpa	155	°C	ISO 75
Flammability acc. to UL94, 0.8 mm thickness	HB		UL 94
Tensile stress	55	MPa	1SO 527
Tensile strain	150	%	1SO 527
Tensile modulus	2100	MPa	1SO 527
Flexural strength	80	MPa	1SO 178
Flexural modulus	2100	MPa	1SO 178
Charpy impact strength – notched, 23°C	6.5	KJ/m ²	1SO 179
Charpy impact strength – unnotched, 23°C	>80	KJ/m ²	1SO 179
Izod impact strength – notched, 23°C	6.0	KJ/m ²	1SO 180-1A
Izod impact strength – unnotched, 23°C	>40	KJ/m ²	1SO 180-1B
Dielectric strength, 2 mm thickness	19	KV/mm	IEC 60243
Volume resistivity	10 ¹⁵	Ω-cm	IEC 60093
Surface resistivity	10 ¹³	Ω	IEC 60093
Arc resistance	110	sec	UL 746A

* All data are the typical values of the material and not the minimum values of the material specifications.