

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 1100

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 mouldability
- 7)Good chemical resistance against fuels, oil, fats and many solvents.
- 8)Good creep behavior.

Extrusion Moulding Condition

Cylinder temperatures	: 230 ~ 260°C
Nozzle temperature	: 245 ~ 250°C
Cooling temperature	: 40 ~ 120°C, suitable temperature 60 ~ 80 °C
L/D	: 24 ~ 28
Compression ratio	: 2.5 ~ 3.5
Mould shrinkage	Mould shrinkage 1.6 mm thickness is 1.2 ~ 1.8 % under the test method ASTM D955.

Packaging

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

Material handling

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

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Property	Value	Unit	Test method ASTM/ISO IEC
Specific gravity	1.30-1.32	(g/cm ³)	D792/1183
Melting point	225±2	°C	DSC
Coef. of linear thermal expansion	9	10 ⁻⁵ cm/cm°C	D696/ISO 11359-1
Heat deflection temperature under load			
--- 1,8 M Pa	60	°C	D648/ISO 75-1 A
--- 0,45 M Pa	155	°C	D648 / ISO 75-1 B
Moisture absorption (24h)	0.06	%	D570 /ISO 62
Flammability acc. To UL94 (1.6 mm)	HB	-	UL94 / ISO 1210
Tensile strength	56	M Pa	D638/ISO 527 -1
Tensile elongation	≥ 150	%	D638 / ISO 527-1
Flexural strength	81	M Pa	D790 / ISO 178
Flexural modulus	2445	M Pa	D790 / ISO 178
Izod impact strength - notched 1/4"	5.0 – 6.0	kg.cm/cm	D256
Charpy Impact Notched		(kJ/m ²)	ISO 179/1eA
Hardness - rockwell	85-90	M	D785 / IEC 2039-2
Dielectric strength, 2 mm thickness	≥ 15	KV/mm	D149 / IEC 243
Volume resistivity	≥ 10 ¹⁶	Ω-cm	D257/ IEC 60250
Surface resistivity	≥ 10 ¹⁶	Ω	D257/ IEC 60093
Dielectric constant	3.3	60Hz	D150/ IEC 60250
Dielectric dissipation factor	0.001	60Hz	D150 / IEC 60250
Arc resistance	120	SEC	D495 / UL 746 A

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