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

Packaging

25 ㎏/ paper bag or 850 ㎏/ 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/cm³)	D792/1183
Melting point	225±2	℃	DSC
Coef. of linear thermal expansion	9	10^{-5} ㎝/㎝℃	D696/ISO 11359-1
Heat deflection temperature under load			
--- 1,8 M Pa	60	℃	D648/ISO 75-1 A
--- 0,45 M Pa	155	℃	D648 / ISO 75-1 B
Moisture absorption (24h)	0.06	%	D570 /ISO 62
Flammability acc. To UL94 (1.6 ㎜)	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	㎏.㎝/㎝	D256
Charpy Impact Notched		(kJ/m²)	ISO 179/1eA
Hardness - rockwell	85-90	M	D785 / IEC 2039-2
Dielectric strength, 2 ㎜ thickness	≧ 15	KV/㎜	D149 / IEC 243
Volume resistivity	≧ 10^{16}	Ω-㎝	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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