

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

Technical Data

CCP PBT 3030-200HR

PBT glass fiber 30% reinforced 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
- 8)High hydrolysis resistance

Injection Moulding Condition

Cylinder temperatures	: 240-270°C
Nozzle temperature	: 260-270°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 horizon is 0.2-0.5% and vertical is 0.8-1.4% 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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Property	Value	Unit	Test method ASTM
Glass Fiber Content	30	%	
Specific gravity	1.50	-	D792
Melting point	225	°C	DSC
Coef. of linear thermal expansion	3	10 ⁻⁵ cm/cm°C	D696
Heat deflection temperature under load			
--- 18.6 kg/cm ²	205	°C	D648
--- 4.6 kg/cm ²	220	°C	D648
Moisture absorption (24h)	0.04	%	D570
Flammability acc. to UL94, 0.8 mm thickness	HB	-	UL94
Tensile strength	1290	kg/cm ²	D638
Tensile elongation	4.0	%	D638
Flexural strength	2020	kg/cm ²	D790
Flexural modulus	82000	kg/cm ²	D790
Izod impact strength - notched 1/4"	11.8	kg-cm/cm	D256
Hardness - rockwell	121	R	D785
Dielectric strength, 2 mm thickness	24	KV/mm	D149
Volume resistivity	10 ¹⁵	Ω-cm	D257
Surface resistivity	10 ¹³	Ω	D257
Dielectric constant	3.7	60Hz	D150
Dielectric dissipation factor	0.001	60Hz	D150
Arc resistance	100	SEC	D495

(1) For reference only

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(2) All data in the table are the typical values of the material and not the minimum values of the material specifications.