

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 5615-102

PBT glass fiber 15% reinforced halogen-free flame retardant injection moulding grade.

Characteristics

- 1)halogen-free
- 2)excellent electrical property
- 3)excellent temperature resistance, high heat distortion temperature.
- 4)excellent mechanic and chemical property
- 5)excellent weatherability
- 6)excellent wear property
- 7)excellent moldability
- 8)high resistance to fuels, oil, fats and many solvents

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 0.1-0.4% 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	15	%	
Specific gravity	1.47	-	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	190	°C	D648
--- 4.6 kg/cm ²	210	°C	D648
Moisture absorption (24h)	0.03	%	D570
Flammability acc. to UL94, 1.6 mm thickness	V-0	-	UL94
Tensile strength	650	kg/cm ²	D638
Tensile elongation	3.4	%	D638
Flexural strength	1050	kg/cm ²	D790
Flexural modulus	45000	kg/cm ²	D790
Izod impact strength - notched 1/4"	7.0	kg-cm/cm	D256
Hardness - rockwell	119	R	D785
Dielectric strength, 2 mm thickness	22	KV/mm	D149
Volume resistivity	10 ¹⁵	Ω-cm	D257
Surface resistivity	10 ¹³	Ω	D257
Dielectric constant	3.5	60Hz	D150
Dielectric dissipation factor	0.001	60Hz	D150
Arc resistance	120	SEC	D495

(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.