

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 3030 Technical Data

CCP PBT 3030

PBT 3030 is a 30 % glass fiber reinforced product for injection moulding

Characteristics

- 1)excellent electrical property
- 2)excellent heat resistance, high heat deflection temperature
- 3)excellent mechanical and chemical property
- 4)excellent weatherability
- 5)excellent wear property
- 6)excellent mouldability
- 7)high resistance against fuels, oils, fats and many solvents

Injection Moulding Conditions

Cylinder temperatures	: 240-270°C
Nozzle temperature	: 260-270°C
Mould temperature	: 40-120°C, suitable temperature 60-80°C
Injection rate	: middle to fast
Screw speed	: 60-120 U / min. , to be choosen in such a way, that plasticizing time is just within cooling time.
Pressures	Injection pressure : 500-1200 bars Holding pressure : 300-800 bars Back pressure : 0-3 bars
Shrinkage	Mould shrinkage 1.6 mm horizon is 0.2-0.5% and vertical is 0.8-1.4 % acc. to test method ASTM D955.

Packaging

25 kg paper bags or 800 kg big bag

Material Handling

Product has to be dried before use. Moisture pick-up from ambient air should be avoided. Keep hopper porperly closed.

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Property	Value	Unit	Test method ISO / ASTM
Glass fiber content	30	%	CCP
Specific gravity	1.51	'g / cm ³	1183 / D792
Melting point	225	°C	DSC
Coeff. of linear thermal expansion	3	10 ⁻⁵ cm/cm°C	D696
Heat deflection temperature under load			
--- 1,8 M Pa	200	°C	75 – 2 / D648
--- 0,45 M Pa	220	°C	75 – 2 / D648
Moisture absorption (24h)	0.04	%	62 / D570
Flammability acc. to UL94, 0.8 mm thickness	HB	-	1210 / UL94
Tensile strength	117	M Pa	527 – 2 / D638
Elongation at break	3.5	%	527 – 2 / D638
Flexural strength	181	M Pa	178 / D790
Flexural modulus	7850	M Pa	178 / D790
Izod impact strength notched 1/4"	8,5	kg.cm/cm	D256
Hardness Rockwell	90	M	2039 – 2 /D785
Dielectric strength, 2 mm	20	KV/mm	243 / D149
Volume resistivity	10 ¹⁵	Ω-cm	IEC 167 / D257
Surface resistivity	10 ¹³	Ω	IEC 93 / D257
Dielectric constant	3.5	60Hz	IEC 250 / D150
Dielectric loss factor	0.001	60Hz	IEC 250 / D150
Arc resistance	100	sec	D495

The information provided in this documentation corresponds to our knowledge on the subject at the date of its publication. The information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits nor used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since Chang Chun Plastics cannot anticipate all variations in actual end uses conditions the Company makes

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