CHANG CHUN PLASTICS CO., LTD.
NO. 301, SONGKIANG ROAD, 7TH FL.,TAIPEI, 10477 TAIWAN

LONGLITE®

Polybutylene Terephthalate

PBT 5630F-104D

>PBT-GF30 FR(30+40)<

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Halogen Free PBT 5630F-104D Technical Data

Engineering Plastics Polybutylene Terephthalate

CCP PBT 5630F-104D

PBT 5630F-104D is a 30% glass fiber reinforced halogen free flame retarded injection molding 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

Drying temperature	: 120-140℃
Drying time	: 2-4 Hrs
Maximum Moisture Content	: 0.02%
Cylinder temperatures	: 230-260℃
Nozzle temperature	: 240-260℃
Mould temperature	: 40-120℃, suitable temperature 60-80℃
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 0.8-1.1% under the test method ISO 527.

Packaging

25 kg/ paper bag

Material handing

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

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Polybutylene Terephthalate

CCP PBT 5630F-104D

Property	Value	Unit	Test method
ISO quality of the material display :	>PBT-GF30 FR(30+40)<		ISO 11469
Glass Fiber Content	30	%	
Density	1.53	g/cm^3	ISO 1183
Melting point	225	℃	DSC
Heat deflection temperature under load			
--- 18.6 Mpa	200	℃	ISO 75
--- 4.6 Mpa	210	℃	ISO 75
Flammability acc. to UL94, 0.4 ㎜ thickness	V-0	-	UL94
Tensile stress	100	MPa	ISO 527
Tensile strain	2.0	%	ISO 527
Tenaile modulus	10000	MPa	ISO 527
Flexural stress	150	MPa	ISO 178
Flexural modulus	7500	MPa	ISO 178
Charpy impact strength-notched, 23℃	8.0	KJ/m^2	ISO 179
Dielectric strength, 2 ㎜ thickness	20	KV/㎜	IEC 243
Volume resistivity	10^{15}	Ω-㎝	IEC 60093
Surface resistivity	10^{13}	Ω	IEC 60093
Comparative Tracking Index	400	Volts	UL 746A
Arc resistance	100	SEC	UL 746A

(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.