

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

LONGLITE[®]

Polybutylene Terephthalate

PBT 5615-200A

PBT 5615F-200A

>PBT-GF15 FR(30+40)<

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Halogen Free PBT 5615-200A PBT 5615F-200A Technical Data

Engineering Plastics Polybutylene Terephthalate

CCP PBT 5615-200A, 5615F-200A

PBT 5615-200A, 5615F-200A is a 15% 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

Cylinder temperatures	: 230-260°C
Nozzle temperature	: 240-260°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 0.2-0.6% and vertical is 0.9-1.3% 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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Engineering Plastics Polybutylene Terephthalate

CCP PBT 5615-200C, 5615F-200C (Nature Color)

Property	Value	Unit	Test method
ISO quality of the material display :	>PBT-GF15 FR(30+40)<		ISO 11469
Glass Fiber Content	15	%	
Density	1.42	g/cm ³	ISO 1183
Melt volume rate, 250°C/2.16kg	17	cm ³ /10min	ISO 1133
Melting point	225	°C	DSC
Heat deflection temperature under load			
--- 1.80 Mpa	195	°C	ISO 75
--- 0.45 Mpa	210	°C	ISO 75
Flammability acc. to UL94,3.2 mm thickness	V-0	-	UL94
Tensile stress	90	MPa	ISO 527
Tensile strain	3.2	%	ISO 527
Tensile modulus	6000	MPa	ISO 527
Flexural stress	135	MPa	ISO 178
Flexural modulus	5200	MPa	ISO 178
Charpy impact strength-notched, 23°C	6.5	KJ/m ²	ISO 179
Charpy impact strength-unnotched, 23°C	35	KJ/m ²	ISO 179
Izod impact strength - notched 23°C	6.0	KJ/m ²	ISO 180-1A
Izod impact strength - unnotched 23°C	32	KJ/m ²	ISO 180-1C
Dielectric strength, 2 mm thickness	25	KV/mm	IEC 60243
Volume resistivity	10 ¹⁵	Ω-cm	IEC 60093
Surface resistivity	10 ¹³	Ω	IEC 60093
Comparative Tracking Index	450	Volts	UL 746A
Arc resistance	100	SEC	UL 746A

(1) For reference only

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