

**CHANG CHUN PLASTICS CO., LTD.**

NO. 301, SONGKIANG ROAD, 7<sup>TH</sup> FL., TAIPEI, 10477 TAIWAN

TEL : 886-2-2503-8131 (REF) FAX : 886-2- 2501-8018

**LONGLITE<sup>®</sup>**

*Polybutylene Terephthalate*

**PBT 5615-104C**

**PBT 5615F-104C**

**>PBT-GF15 FR(30+40)<**

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## Halogen Free PBT 5615-104C PBT 5615F-104C Technical Data

## Engineering Plastics Polybutylene Terephthalate

### CCP PBT 5615-104C, 5615F-104C

PBT 5615-104C, 5615F-104C 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 <sup>2</sup>
	Holding pressure : 300-800 kg/cm <sup>2</sup>
	Back pressure : 0-3 kg/cm <sup>2</sup>
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 handling

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

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## Engineering Plastics Polybutylene Terephthalate

### CCP PBT 5615-104C, 5615F-104C (Black Color)

Property	Value	Unit	Test method
ISO quality of the material display :	>PBT-GF15 FR(30+40)<		ISO 11469
Glass Fiber Content	15	%	
Density	1.40	g/cm <sup>3</sup>	ISO 1183
Melt volume rate, 250°C/2.16kg	17	cm <sup>3</sup> /10min	ISO 1133
Melting point	225	°C	DSC
Heat deflection temperature under load			
--- 18.6 Mpa	195	°C	ISO 75
--- 4.6 Mpa	210	°C	ISO 75
Flammability acc. to UL94, 0.8 mm thickness	V-0	-	UL94
Tensile stress	70	MPa	ISO 527
Tensile strain	2.9	%	ISO 527
Tensile modulus	5800	MPa	ISO 527
Flexural stress	115	MPa	ISO 178
Flexural modulus	4900	MPa	ISO 178
Charpy impact strength-notched, 23°C	6.5	KJ/m <sup>2</sup>	ISO 179
Charpy impact strength-unnotched, 23°C	35	KJ/m <sup>2</sup>	ISO 179
Izod impact strength - notched 23°C	6.3	KJ/m <sup>2</sup>	ISO 180-1A
Izod impact strength - unnotched 23°C	31	KJ/m <sup>2</sup>	ISO 180-1C
Dielectric strength, 2 mm thickness	20	KV/mm	IEC 243
Volume resistivity	10 <sup>15</sup>	Ω-cm	IEC 60093
Surface resistivity	10 <sup>13</sup>	Ω	IEC 60093
Comparative Tracking Index	400	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.