

LONGLITE® PBT 6130-104

Chang Chun Plastics Co., Ltd. (CCP Group) - Polycarbonate + PBT

General Information
Product Description

PBT/PC 6130-104 is a 30% glass fiber reinforced flame retardant injection molding grade.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Chemical Resistant • Good Electrical Properties • Low Warpage • Excellent Weather Resistance • Good Moldability • Wear Resistant • Flame Retardant • High Heat Resistance
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.59	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 0.0630 in	0.50 to 1.1	%	
Flow : 0.0630 in	0.20 to 0.60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.38E+6	psi	ISO 527-1
Tensile Stress	18900	psi	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	1.09E+6	psi	ISO 178
Flexural Stress	26800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.5	ft·lb/in ²	ISO 179
Charpy Unnotched Impact Strength (73°F)	24	ft·lb/in ²	ISO 179
Notched Izod Impact Strength (73°F)	4.3	ft·lb/in ²	ISO 180
Unnotched Izod Impact Strength (73°F)	19	ft·lb/in ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	410	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	374	°F	ISO 75-2/A
Melting Temperature	437	°F	DSC
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Electric Strength (0.0787 in)	510	V/mil	IEC 60243-1
Arc Resistance	100	sec	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.031 in)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Middle Temperature	455 to 518	°F
Nozzle Temperature	464 to 509	°F
Mold Temperature	104 to 248	°F
Injection Pressure	7110 to 17100	psi
Injection Rate	Moderate-Fast	
Holding Pressure	4270 to 11400	psi



Back Pressure	0.00 to 42.7 psi
Screw Speed	60 to 120 rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

