

LONGLITE® PBT 5630F-104D

Chang Chun Plastics Co., Ltd. (CCP Group) - Polybutylene Terephthalate

General Information
Product Description

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

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Flame Retardant • Mold Release
Features	• Chemical Resistant • Good Electrical Properties • High Heat Resistance • Excellent Weather Resistance • Good Moldability • Wear Resistant • Flame Retardant • Halogen Free
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PBT-GF30 FR(30+40)<

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.53	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 0.0630 in	0.80 to 1.1	%	
Flow : 0.0630 in	0.10 to 0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.45E+6	psi	ISO 527-1
Tensile Stress	14500	psi	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	1.09E+6	psi	ISO 178
Flexural Stress	21800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.8	ft·lb/in ²	ISO 179
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)	392	°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+15	ohms·cm	IEC 60093
Electric Strength (0.0787 in)	510	V/mil	IEC 60243-1
Arc Resistance	100	sec	UL 746
Comparative Tracking Index	400	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.016 in)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	248 to 284	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Middle Temperature	446 to 500	°F
Nozzle Temperature	464 to 500	°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.

