

LONGLITE® PBT 5630F-104CTR

 Chang Chun Plastics Co., Ltd. (CCP Group) - *Polybutylene Terephthalate*
General Information
Product Description

 PBT 5630F-104CTR is a glass fiber/mineral reinforced and flame-retardant injection-molding grade.
 (Halogen and Antimony Free)

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber/Mineral
Additive	• Flame Retardant • Mold Release
Features	• Antimony Free • Flame Retardant • Halogen Free
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.80 to 1.2	%	
Flow	0.20 to 0.50	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	14500	psi	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	1.19E+6	psi	ISO 178
Flexural Stress	23200	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.6	ft-lb/in ²	ISO 179/1eA
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 ²	437	°F	ISO 11357-3
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)	640	V/mil	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.031 in)	V-0		UL 94
Glow Wire Ignition Temperature			IEC 60695-2-13
0.031 in	1380	°F	
0.12 in	1430	°F	
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (500°F, 1000 sec ⁻¹)	175	Pa·s	ISO 11443

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	248 to 284	°F
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.040	%



Processing (Melt) Temp	482 to 518 °F
Mold Temperature	104 to 176 °F

Notes

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

² 10°C/min

