

LONGLITE® PBT 4130-NCT0

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

General Information
Product Description

PBT 4130-NCT0 is a glass fiber reinforced flame retardant injection grade, high GWIT.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.62	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.80 to 1.1	%	
Flow	0.10 to 0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	18100	psi	ISO 527-2
Tensile Strain (Break)	1.5	%	ISO 527-2
Flexural Modulus	1.38E+6	psi	ISO 178
Flexural Stress	26100	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.3	ft-lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	419	°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+16	ohms·cm	IEC 60093
Electric Strength (0.0787 in)	510	V/mil	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.031 in)	V-0		UL 94
Glow Wire Flammability Index (0.030 in)	1760	°F	IEC 60695-2-12
Glow Wire Ignition Temperature (0.030 in)	1430	°F	IEC 60695-2-13

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	464 to 518	°F
Mold Temperature	104 to 176	°F

