

LONGLITE® PBT 4830-104CE

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

General Information

Product Description

PBT 4830-104CE is a glass fiber reinforced and flame-retardant injection-molding grade PBT.

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	• Flame Retardant
Forms	• Pellets
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PBT-GF30FR(17)<

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.61	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)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	20300	psi	ISO 527-2
Tensile Strain (Break)	2.3	%	ISO 527-2
Flexural Modulus	1.20E+6	psi	ISO 178
Flexural Stress	29700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.8	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)	401	°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)	560	V/mil	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.12 in)	V-0		UL 94

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

