

LONGLITE® PBT 3020-200G

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

General Information

Product Description

PBT 3020-200G is a 20% glass bead reinforced injection molding grade.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Bead, 20% Filler by Weight
Features	• Chemical Resistant • Good Electrical Properties • High Heat Resistance • Excellent Weather Resistance • Good Moldability • Wear Resistant
Processing Method	• Injection Molding

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	25	cm ³ /10min	ISO 1133
Molding Shrinkage (0.0630 in)	1.0 to 2.0	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	508000	psi	ISO 527-1
Tensile Stress	7250	psi	ISO 527-2
Tensile Strain (Break)	8.0	%	ISO 527-2
Flexural Modulus	406000	psi	ISO 178
Flexural Stress	11600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.4	ft·lb/in ²	ISO 179
Charpy Unnotched Impact Strength (73°F)	12	ft·lb/in ²	ISO 179
Notched Izod Impact Strength (73°F)	1.4	ft·lb/in ²	ISO 180
Unnotched Izod Impact Strength (73°F)	9.5	ft·lb/in ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	311	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	140	°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+13	ohms·cm	IEC 60093
Electric Strength (0.0787 in)	480	V/mil	IEC 60243-1
Arc Resistance	100	sec	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.031 in)	HB		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

