LONGLITE® PBT 3010-114XQ

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

General Information

Product Description

PBT 3010-114XQ is a 10% glass fiber reinforced impact modified injection molding grade.

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Additive	• Impact Modifier		
Features	• Chemical Resistant • Excellent Weather Resistance • Good Electrical Properties	• Good Moldability • High Heat Resistance • Impact Modified	• Wear Resistant
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	15	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Flow : 0.0354 in	0.50 to 0.90	%	
Across Flow : 0.0630 in	1.0 to 1.4	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	580000	psi	ISO 527-1
Tensile Stress	10400	psi	ISO 527-2
Tensile Strain (Break)	3.5	%	ISO 527-2
Flexural Modulus	508000	psi	ISO 178
Flexural Stress	16700	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	4.0	ft·lb/in²	ISO 179
Charpy Unnotched Impact Strength (73°F)	21	ft·lb/in²	ISO 179
Notched Izod Impact Strength (73°F)	3.3	ft·lb/in²	ISO 180
Unnotched Izod Impact Strength (73°F)	17	ft·lb/in²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	392	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	365	°F	ISO 75-2/A
Melting Temperature	437	°F	DSC
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Electric Strength (0.0787 in)	560	V/mil	IEC 60243-1
Arc Resistance	110	sec	UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.031 in)	HB		UL 94
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Viscosity (500°F, 1000 sec^-1)	200	Pa·s	ISO 11443

Processing Information

Injection	Nominal Value	Unit
Middle Temperature	446 to 527	°F
Nozzle Temperature	473 to 527	°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.