

**LONGLITE® PBT 3015-210XQR**

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

PBT 3015-210XQR is a 15% glass fiber reinforced impact modified and hydrolysis-resistant injection molding grade.

**General**

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Additive	• Impact Modifier
Features	• Chemical Resistant • Good Moldability • Impact Modified • Excellent Weather Resistance • High Heat Resistance • Wear Resistant • Good Electrical Properties • Hydrolysis Resistant
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			ISO 294-4
Flow : 0.0354 in	0.20 to 0.60	%	
Across Flow : 0.0630 in	0.80 to 1.2	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	798000	psi	ISO 527-1
Tensile Stress	14500	psi	ISO 527-2
Tensile Strain (Break)	3.5	%	ISO 527-2
Flexural Modulus	638000	psi	ISO 178
Flexural Stress	21000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	5.0	ft·lb/in <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength (73°F)	24	ft·lb/in <sup>2</sup>	ISO 179
Notched Izod Impact Strength (73°F)	4.3	ft·lb/in <sup>2</sup>	ISO 180
Unnotched Izod Impact Strength (73°F)	19	ft·lb/in <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	401	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	374	°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+14	ohms·cm	IEC 60093
Electric Strength (0.0787 in)	530	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 <sup>-1</sup> )	210	Pa·s	ISO 11443

**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

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

