LONGLITE® PBT 1100-202N

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

General Information

Product Description			
PBT 1100-202N is a high toughness injection molding grade.			
General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Additive	• Mold Release		
Features	• High Toughness		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	• Profile Extrusion
Part Marking Code (ISO 11469)	• >PBT<		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.29	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	28	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.8 to 2.0	%	
Flow	1.8 to 2.0	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	0.40	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	312000	psi	ISO 527-1
Tensile Stress (Break)	6530	psi	ISO 527-2
Tensile Strain (Break)	30	%	ISO 527-2
Flexural Modulus	290000	psi	ISO 178
Flexural Stress	10300	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	3.1	ft·lb/in²	
73°F	3.8	ft·lb/in²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Annealed)	311	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Annealed)	131	°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+17	ohms·cm	IEC 60093
Electric Strength (0.0787 in)	510	V/mil	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.031 in)	HB		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 509	°F
Mold Temperature	104 to 176	°F