

**LONGLITE® PBT 1200-104M**

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

**General Information**
**Product Description**

PBT 1200-104M is an unreinforced low viscosity injection molding grade.

**General**

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Chemical Resistant	• Good Moldability	• Wear Resistant
	• Excellent Weather Resistance	• High Heat Resistance	
	• Good Electrical Properties	• Low Viscosity	
Processing Method	• Injection Molding		

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

Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage (0.0630 in)	1.0 to 2.0	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	319000	psi	ISO 527-1
Tensile Stress	7980	psi	ISO 527-2
Tensile Strain (Break)	10	%	ISO 527-2
Flexural Modulus	290000	psi	ISO 178
Flexural Stress	11600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.9	ft-lb/in <sup>2</sup>	ISO 179
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)	122	°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)	480	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

**Processing Information**

Injection	Nominal Value	Unit
Middle Temperature	446 to 509	°F
Nozzle Temperature	464 to 500	°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

