

LONGLITE® PBT 1200 BK

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

PBT injection moulding grade.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.32		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	40 to 50	g/10 min	Internal Method
Molding Shrinkage - Flow (0.0630 in)	0.011 to 0.019	in/in	ASTM D955
Molding Shrinkage - Across Flow (0.0630 in)	0.013 to 0.021	in/in	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	7970	psi	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	356000	psi	ASTM D790
Flexural Strength	12100	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.250 in)	0.46	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	302	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	140	°F	ASTM D648
Melting Temperature	437	°F	DSC
CLTE - Flow	5.0E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	ASTM D257
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (0.0787 in)	510	V/mil	ASTM D149
Dielectric Constant (60 Hz)	3.30		ASTM D150
Dissipation Factor (60 Hz)	1.0E-3		ASTM D150
Arc Resistance	100	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.13 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Middle Temperature	446 to 500	°F
Nozzle Temperature	473 to 482	°F
Mold Temperature	86 to 212	°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

