



PBT-4120			
PBT-GF20			ChangChun Group
Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.0045	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.015	mm/mm	ASTM D 955
Density, 73°F	1570	kg/m ³	ASTM D 792
Water Absorption, 24hr	0.03	%	ASTM D 570
Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength	103	MPa	ASTM D 638
Flexural Modulus	4905	MPa	ASTM D 790
Flexural Strength	142	MPa	ASTM D 790
Rockwell Hardness	M 93	-	ASTM D 785
Izod Impact notched, 1/4 in	0.0754	kJ/m	ASTM D 256
Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.8	mm	-
Coefficient of Thermal Expansion, MD	35	E-6/K	ASTM D 696
DTUL @ 66 psi	220	°C	ASTM D 648
DTUL @ 264 psi	205	°C	ASTM D 648
Melting Temperature	225	°C	ASTM D 3418
Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	20	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.001	-	ASTM D 150
Dielectric Constant, 60 Hz	3.5	-	ASTM D 150
Surface Resistivity	1E13	Ohm	ASTM D 257
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257
Arc Resistance	90	s	ASTM D 495
Characteristics			
Delivery form	Special Characteristics		
Pellets	Flame retardant		