

TECHNICAL DATA SHEET

PBT-1100

ChangChun Group

PBT

Delivery Form

Pellets

Processing/Physical Characteristics	Value	Unit	Standard
Mold shrinkage, MD	0.014	mm/mm	ASTM D 955
Mold shrinkage, TD	0.017	mm/mm	ASTM D 955
Mechanical Properties	Value	Unit	Standard
Tensile strength	54	MPa	ASTM D 638
Flexural modulus	1962	MPa	ASTM D 790
Flexural strength	78	MPa	ASTM D 790
Rockwell hardness	M 87		ASTM D 785
Izod impact notched, 1/4 in	51.88	J/m	ASTM D 256
Thermal Properties	Value	Unit	Standard
UL 94 flame rating	HB		UL 94
Thickness tested	0.75	mm	
Coefficient of thermal expansion, MD	90	E-6/K	ASTM D 696
DTUL @ 66 psi	155	°C	ASTM D 648
DTUL @ 264 psi	60	°C	ASTM D 648
Melting temperature	225	°C	ASTM D 3418
Electrical Properties	Value	Unit	Standard
Dielectric strength, short time	20	kV/mm	ASTM D 149
Dissipation factor, 60 Hz	0.001		ASTM D 150
Dielectric constant, 60 Hz	3.3		ASTM D 150
Surface resistivity	1E13	Ohm	ASTM D 257
Volume resistivity	>1E15	Ohm*cm	ASTM D 257
Arc resistance	120	s	ASTM D 495
Other Properties	Value	Unit	Standard
Water absorption, 24hr	0.06	%	ASTM D 570

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Other Properties	Value	Unit	Standard
Density	1310	kg/m³	ASTM D 792