

TECHNICAL DATA SHEET

PBT 4115-104D

ChangChun Group

PBT-GF15

Processing

Injection molding

Chemical Resistance

Solvent resistance, Oil resistance

Special Characteristics

U.V. stabilized or stable to weather, Heat stabilized or stable to heat
Electrical and electronical

Applications

Processing/Physical Characteristics	Value	Unit	Standard
Mold shrinkage, MD	0.0045	mm/mm	ASTM D 955
Mold shrinkage, TD	0.017	mm/mm	ASTM D 955
Mechanical Properties	Value	Unit	Standard
Tensile strength	93.2	MPa	ASTM D 638
Flexural modulus	5395	MPa	ASTM D 790
Flexural strength	137.3	MPa	ASTM D 790
Rockwell hardness	M 90		ASTM D 785
Izod impact notched, 1/4 in	56.59	J/m	ASTM D 256
Thermal Properties	Value	Unit	Standard
UL 94 flame rating	V-0		UL 94
Thickness tested	0.8	mm	
Coefficient of thermal expansion, MD	50	E-6/K	ASTM D 696
DTUL @ 66 psi	220	°C	ASTM D 648
DTUL @ 264 psi	200	°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	3.5		ASTM D 150
Surface resistivity	1E13	Ohm	ASTM D 257
Volume resistivity	1E15	Ohm*cm	ASTM D 257

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Electrical Properties	Value	Unit	Standard
Arc resistance	90	s	ASTM D 495
Other Properties	Value	Unit	Standard
Water absorption, 24hr	0.03	%	ASTM D 570
Density	1530	kg/m ³	ASTM D 792