

**TECHNICAL DATA SHEET**

# PBT 5130-104

ChangChun Group  
PBT-GF30

**Processing**

Injection molding

**Delivery Form**

Black

**Special Characteristics**

Flame retardant, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

**Chemical Resistance**

Solvent resistance, Oil resistance

**Applications**

Electrical and electronical

Processing/Physical Characteristics	Value	Unit	Standard
Mold shrinkage, MD	0.0025	mm/mm	ASTM D 955
Mold shrinkage, TD	0.011	mm/mm	ASTM D 955
Mechanical Properties	Value	Unit	Standard
Tensile strength	107.9	MPa	ASTM D 638
Flexural modulus	8633	MPa	ASTM D 790
Flexural strength	176.6	MPa	ASTM D 790
Rockwell hardness	M 90		ASTM D 785
Izod impact notched, 1/4 in	66.01	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	30	E-6/K	ASTM D 696
DTUL @ 66 psi	210	°C	ASTM D 648
DTUL @ 264 psi	195	°C	ASTM D 648
Melting temperature	225	°C	ASTM D 3418
Electrical Properties	Value	Unit	Standard
Comparative tracking index	212		IEC 60112
Dielectric strength, short time	19	kV/mm	ASTM D 149
Dissipation factor, 60 Hz	0.01		ASTM D 150
Dielectric constant, 60 Hz	3.2		ASTM D 150

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Electrical Properties	Value	Unit	Standard
Surface resistivity	1E12	Ohm	ASTM D 257
Volume resistivity	1E15	Ohm*cm	ASTM D 257
Arc resistance	110	s	ASTM D 495

  

Other Properties	Value	Unit	Standard
Water absorption, 24hr	0.03	%	ASTM D 570
Density	1540	kg/m <sup>3</sup>	ASTM D 792