

Gromax PBT 5130-104 30% Glass Fiber Filled

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

CCP Halogen-free PBT, Black. PBT flame-retarded glass fiber 30% reinforced injection molding grade
 Characteristics: Excellent electrical property
 Excellent temperature resistance, high heat distortion temperature
 Excellent mechanic and chemical property
 Excellent weatherability
 Excellent wear property
 Excellent moldability
 High resistance to fuels, oil, fats and many solvents
 Antimony-free, element contents of Cd, Pb, Se, As, meet EN71-3 regulation
 Information provided by Gromax Enterprises Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gromax-PBT-5130-104-30-Glass-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.54 g/cc	1.54 g/cc	ASTM D792
Moisture Absorption	0.0300 % @Time 86400 sec	0.0300 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm @Thickness 1.60 mm	0.0010 - 0.0040 in/in @Thickness 0.0630 in	horizontal; ASTM D955
	0.0080 - 0.014 cm/cm @Thickness 1.60 mm	0.0080 - 0.014 in/in @Thickness 0.0630 in	vertical; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D785
Tensile Strength	108 MPa	15600 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	180 MPa	26100 psi	ASTM D790
Flexural Modulus	8.63 GPa	1250 ksi	ASTM D790
Izod Impact, Notched	>= 0.686 J/cm @Thickness 6.35 mm	>= 1.29 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 Âµm/m-Â°C	16.7 Âµin/in-Â°F	ASTM D696
Melting Point	225 Â°C	437 Â°F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	210 Â°C	410 Â°F	ASTM D648

Thermal Properties Deflection Temperature at 1.8 MPa (150 psi)	Metric 195 Â°C	English 383 Â°F	Comments ASTM D648
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	ASTM D257
Dielectric Constant	3.2 @Frequency 60.0 Hz	3.2 @Frequency 60.0 Hz	ASTM D150
Dielectric Strength	19.0 kV/mm @Thickness 2.00 mm	483 kV/in @Thickness 0.0787 in	ASTM D149
Dissipation Factor	0.0010 @Frequency 60.0 Hz	0.0010 @Frequency 60.0 Hz	ASTM D150
Arc Resistance	110 sec	110 sec	ASTM D495
Comparative Tracking Index	175 - 250 V	175 - 250 V	IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	240 - 270 Â°C	464 - 518 Â°F	
Nozzle Temperature	260 - 270 Â°C	500 - 518 Â°F	
Mold Temperature	40.0 - 120 Â°C	104 - 248 Â°F	suitable temperature 60-80Â°C
Injection Pressure	50.0 - 120 MPa	7250 - 17400 psi	
Hold Pressure	30.0 - 80.0 MPa	4350 - 11600 psi	
Back Pressure	0.000 - 0.300 MPa	0.000 - 43.5 psi	
Screw Speed	60 - 120 rpm	60 - 120 rpm	to be chosen in such a way that plasticizing time is just within cooling time

Descriptive Properties	Value	Comments
Injection Rate	middle-fast	

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