

Gromax PBT 4140-201D 40% Glass Fiber Filled

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 40% Glass Fiber Filled

Material Notes:

Product Description: A glass fiber 40% 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 solventsInformation provided by Gromax Enterprises Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gromax-PBT-4140-201D-40-Glass-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 g/cc	1.75 g/cc	ASTM D792
Moisture Absorption	0.0300 %	0.0300 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	horizontal; ASTM D955
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	0.0070 - 0.013 cm/cm	0.0070 - 0.013 in/in	vertical; ASTM D955
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	95	95	ASTM D785
Tensile Strength	132 MPa	19200 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	180 MPa	26100 psi	ASTM D790
Flexural Modulus	10.8 GPa	1560 ksi	ASTM D790
Izod Impact, Notched	>= 0.981 J/cm	>= 1.84 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 $\mu\text{m/m}\cdot\text{Â}^\circ\text{C}$	16.7 $\mu\text{in/in}\cdot\text{Â}^\circ\text{F}$	ASTM D696
Melting Point	225 $\text{Â}^\circ\text{C}$	437 $\text{Â}^\circ\text{F}$	DSC
Deflection Temperature at 0.46 MPa (66 psi)	210 $\text{Â}^\circ\text{C}$	410 $\text{Â}^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	190 $\text{Â}^\circ\text{C}$	374 $\text{Â}^\circ\text{F}$	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 0.800 mm	@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+13 ohm	1.00e+13 ohm	ASTM D257
Dielectric Constant	3.5 @Frequency 60.0 Hz	3.5 @Frequency 60.0 Hz	ASTM D150
Dielectric Strength	20.0 kV/mm @Thickness 2.00 mm	508 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	90 sec	90 sec	ASTM D495

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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