

Gromax PBT 2000-104D

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

Material Notes:

Product Description: PBT unreinforced 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-2000-104D.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
Moisture Absorption	0.0500 %	0.0500 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage	0.0090 - 0.018 cm/cm	0.0090 - 0.018 in/in	horizontal; ASTM D955
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	0.012 - 0.021 cm/cm	0.012 - 0.021 in/in	vertical; ASTM D955
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	ASTM D785
Tensile Strength	53.9 MPa	7820 psi	ASTM D638
Elongation at Break	4.5 %	4.5 %	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	2.45 GPa	356 ksi	ASTM D790
Izod Impact, Notched	>= 0.294 J/cm	>= 0.551 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	50.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Melting Point	225 $\text{Å}^\circ\text{C}$	437 $\text{Å}^\circ\text{F}$	DSC
Deflection Temperature at 0.46 MPa (66 psi)	165 $\text{Å}^\circ\text{C}$	329 $\text{Å}^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.0 $\text{Å}^\circ\text{C}$	149 $\text{Å}^\circ\text{F}$	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	3.3 @Frequency 60.0 Hz	3.3 @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	100 sec	100 sec	ASTM D495

Processing Properties	Metric	English	Comments
Processing Temperature	230 - 260 Â°C	446 - 500 Â°F	
Nozzle Temperature	250 - 260 Â°C	482 - 500 Â°F	
Mold Temperature	40.0 - 120 Â°C	104 - 248 Â°F	suitable temperature 40-60Â°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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