

Gromax PBT 1100-211MB

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

Material Notes:

Product Description: PBT unreinforced middle viscosity 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-1100-211MB.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 - 1.32 g/cc	1.30 - 1.32 g/cc	ASTM D792
Moisture Absorption	0.0600 % @Time 86400 sec	0.0600 % @Time 24.0 hour	ASTM D570
Viscosity Measurement	1.045 - 1.075	1.045 - 1.075	[dl/gr] Intrinsic; ASTM D2857
Linear Mold Shrinkage	0.012 - 0.018 cm/cm @Thickness 1.60 mm	0.012 - 0.018 in/in @Thickness 0.0630 in	ASTM D955
Melt Flow	15 - 18 g/10 min @Load 2.16 kg, Temperature 235 °C	15 - 18 g/10 min @Load 4.76 lb, Temperature 455 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85 - 90	85 - 90	ASTM D785
Tensile Strength	49.0 - 58.8 MPa	7110 - 8530 psi	ASTM D638
Elongation at Break	>= 120 %	>= 120 %	ASTM D638
Flexural Strength	80.0 - 90.0 MPa	11600 - 13100 psi	ASTM D790
Flexural Modulus	2.26 GPa	327 ksi	ASTM D790
Izod Impact, Notched	>= 0.441 J/cm @Thickness 6.35 mm	>= 0.827 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ASTM D696
Melting Point	223 - 227 °C	433 - 441 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	155 °C	311 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 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	120 sec	120 sec	ASTM D495

Processing Properties	Metric	English	Comments
Processing Temperature	230 - 260 °C	446 - 500 °F	
Nozzle Temperature	245 - 250 °C	473 - 482 °F	
Mold Temperature	30.0 - 100 °C	86.0 - 212 °F	suitable temperature 40-60°C
Injection Pressure	50.0 - 100 MPa	7250 - 14500 psi	
Hold Pressure	30.0 - 70.0 MPa	4350 - 10200 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
Carboxyl End Groups	<30 meq/kg	Chang Chun
Color	<2	b
	>85	L, Chang Chun
Injection Rate	middle	

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