

Gromax PET 9030-104E 30% Glass/Mineral Filled

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass/Mineral Reinforced

Material Notes:

Product Description: PET glass 30% reinforced injection molding grade. Characteristics:Excellent electrical property Excellent mechanic and chemical property Excellent weatherability Excellent wear property Excellent moldability High resistance to fuels, oil, fats and many solventsLow warp ageInformation provided by Gromax Enterprises Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gromax-PET-9030-104E-30-GlassMineral-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.54 g/cc	1.54 g/cc	ASTM D792
Moisture Absorption	0.0500 % @Time 86400 sec	0.0500 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm @Thickness 1.60 mm	0.0010 - 0.0030 in/in @Thickness 0.0630 in	horizontal; ASTM D955
	0.0040 - 0.011 cm/cm @Thickness 1.60 mm	0.0040 - 0.011 in/in @Thickness 0.0630 in	vertical; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	113 MPa	16400 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	170 MPa	24700 psi	ASTM D790
Flexural Modulus	6.86 GPa	996 ksi	ASTM D790
Izod Impact, Notched	>= 0.785 J/cm @Thickness 6.35 mm	>= 1.47 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	257 Â°C	495 Â°F	DSC
Deflection Temperature at 1.8 MPa (264 psi)	215 Â°C	419 Â°F	ASTM D648
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 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	0.0050 @Frequency 60.0 Hz	0.0050 @Frequency 60.0 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Processing Temperature	265 - 300 Â°C	509 - 572 Â°F	
Nozzle Temperature	270 - 300 Â°C	518 - 572 Â°F	
Mold Temperature	80.0 - 120 Â°C	176 - 248 Â°F	suitable temperature 90-120Â°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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