

Gromax CCP PET 9130-104 30% Glass Filled

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 30% Glass Reinforced

Material Notes:

Product Description: PET glass/mineral 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-CCP-PET-9130-104-30-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 g/cc	1.70 g/cc	ASTM D792
Moisture Absorption	0.0500 %	0.0500 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	horizontal; ASTM D955
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	0.0040 - 0.011 cm/cm	0.0040 - 0.011 in/in	vertical; ASTM D955
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	125.0 MPa	18130 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	195 MPa	28300 psi	ASTM D790
Flexural Modulus	9.81 GPa	1420 ksi	ASTM D790
Izod Impact, Notched	>= 0.883 J/cm	>= 1.65 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	11.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Melting Point	255 $\text{Å}^\circ\text{C}$	491 $\text{Å}^\circ\text{F}$	DSC
Deflection Temperature at 0.46 MPa (66 psi)	247 $\text{Å}^\circ\text{C}$	477 $\text{Å}^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	227 $\text{Å}^\circ\text{C}$	441 $\text{Å}^\circ\text{F}$	ASTM D648
	V-0	V-0	

Thermal Properties	Metric	English	Comments
	@ 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	3.8	3.8	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dielectric Strength	22.0 kV/mm	559 kV/in	ASTM D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dissipation Factor	0.011	0.011	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Arc Resistance	100 sec	100 sec	ASTM D495

Processing Properties	Metric	English	Comments
Processing Temperature	250 - 270 Â°C	482 - 518 Â°F	
Nozzle Temperature	260 - 280 Â°C	500 - 536 Â°F	
Mold Temperature	80.0 - 140 Â°C	176 - 284 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	100 - 200 rpm	100 - 200 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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