

Gromax CCP PBT 1100-104S

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-CCP-PBT-1100-104S.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Moisture Absorption	0.0600 %	0.0600 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage	0.012 - 0.018 cm/cm	0.012 - 0.018 in/in	ASTM D955
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Melt Flow	18 - 32 g/10 min	18 - 32 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 235 Â°C	@Load 4.76 lb, Temperature 455 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Tensile Strength	55.9 MPa	8110 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Flexural Strength	88.0 MPa	12800 psi	ASTM D790
Flexural Modulus	2.45 GPa	356 ksi	ASTM D790
Izod Impact, Notched	>= 0.275 J/cm	>= 0.514 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ASTM D696
Melting Point	225 Â°C	437 Â°F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	155 Â°C	311 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa	60.0 Â°C	140 Â°F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@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	3.3	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dissipation Factor	0.0010	0.0010	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Arc Resistance	120 sec	120 sec	ASTM D495

Processing Properties	Metric	English	Comments
Processing Temperature	230 - 260 Â°C	446 - 500 Â°F	
Nozzle Temperature	245 - 250 Â°C	473 - 482 Â°F	
Mold Temperature	30.0 - 100 Â°C	86.0 - 212 Â°F	suitable temperature 40-60Â°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
Injection Rate	middle	

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