

## Gromax CCP PBT 1100-600S

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

### Material Notes:

Product Description: PBT unreinforced high 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-1100-600S.php](http://www.lookpolymers.com/polymer_Gromax-CCP-PBT-1100-600S.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	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Tensile Strength	53.0 MPa	7680 psi	ASTM D638
Elongation at Break	200 %	200 %	ASTM D638
Flexural Strength	84.0 MPa	12200 psi	ASTM D790
Flexural Modulus	2.35 GPa	341 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 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	50.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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)	155 $\text{Å}^\circ\text{C}$	311 $\text{Å}^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	55.0 $\text{Å}^\circ\text{C}$	131 $\text{Å}^\circ\text{F}$	ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Thermal 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 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	

## Contact Songhan Plastic Technology Co.,Ltd.

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