

PTS PBT-20GFR 20% Glass Filled

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

PBT, injection molding grade, 20% glass fiber reinforced, flame retardant, exceptional flowability and processability, colorable. Information provided by PTS LLC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PTS-PBT-20GFR-20-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 - 1.58 g/cc	1.52 - 1.58 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.17 %	0.17 %	50% RH; ASTM D570
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 250 °C	25 g/10 min @Load 4.76 lb, Temperature 482 °F	ASTM D1238
Ash	20 - 24 %	20 - 24 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	10mm/min; ASTM D638
Elongation at Break	1.8 %	1.8 %	10mm/min; ASTM D638
Flexural Strength	135 MPa	19600 psi	10mm/min; ASTM D790
Flexural Modulus	6.80 GPa	986 ksi	10mm/min; ASTM D790
Izod Impact, Notched (ISO)	5.50 kJ/m ²	2.62 ft-lb/in ²	ASTM D256
Izod Impact, Unnotched (ISO)	48.0 kJ/m ²	22.8 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	195 °C @Thickness 3.20 mm	383 °F @Thickness 0.126 in	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	
Glow Wire Test	750 °C	1380 °F	GWIT

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.4 @Frequency 50.0 Hz	3.4 @Frequency 50.0 Hz	ASTM D150
Dielectric Strength	18.0 kV/mm	457 kV/in	in oil; ASTM D149
Dissipation Factor	0.020 @Frequency 50.0 - 60.0 Hz	0.020 @Frequency 50.0 - 60.0 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Nozzle Temperature	240 °C	464 °F	
Melt Temperature	250 - 280 °C	482 - 536 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	120 - 140 °C	248 - 284 °F	
Dry Time	3 - 4 hour	3 - 4 hour	
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	
Back Pressure	6.00 - 18.0 MPa	870 - 2610 psi	
Screw Speed	<= 100 rpm	<= 100 rpm	

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