

Star Plastics PCGF20 Molding Grade PC with 20% Glass

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% Glass Filled

Material Notes:

Information provided by Star Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Star-Plastics-PCGF20-Molding-Grade-PC-with-20-Glass.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
Melt Flow	15 g/10 min @Load 1.20 kg, Temperature 300 Â°C	15 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	96.5 MPa	14000 psi	ASTM D638
Tensile Modulus	5.14 GPa	745 ksi	ASTM D638
Flexural Yield Strength	121 MPa	17500 psi	ASTM D790
Flexural Modulus	5.17 GPa	750 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	73Â°F, 0.125 in.; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	141 Â°C	285 Â°F	unannealed, .125in; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	288 - 316 Â°C	550 - 600 Â°F	
Middle Barrel Temperature	302 - 329 Â°C	575 - 625 Â°F	
Front Barrel Temperature	316 - 343 Â°C	600 - 650 Â°F	
Nozzle Temperature	316 - 343 Â°C	600 - 650 Â°F	
Melt Temperature	316 - 343 Â°C	600 - 650 Â°F	
Mold Temperature	79.4 - 107 Â°C	175 - 225 Â°F	

Processing Properties	Metric	English	Comments
Dry Time	4 hour	4 hour	
Back Pressure	0.345 - 1.38 MPa	50.0 - 200 psi	
Screw Speed	40 - 100 rpm	40 - 100 rpm	

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