

Polymer Resources PC-G30-TFE15 Polycarbonate, 30% Glass Reinforced, 15% PTFE

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 30% Glass Filled , Polycarbonate, Glass + PTFE Filled

Material Notes:

Polycarbonate, 30% Glass Reinforced, 15% PTFE Process: Injection Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Information provided by Polymer Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Resources-PC-G30-TFE15-Polycarbonate-30-Glass-Reinforced-15-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.55 g/cc	1.55 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
Melt Flow	3.0 - 12 g/10 min @Load 1.20 kg, Temperature 300 °C	3.0 - 12 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	ASTM D638
Tensile Strength, Yield	110 MPa	16000 psi	ASTM D638
Flexural Strength	172 MPa	25000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Temperature 22.8 °C	2.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	149 °C	300 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	146 °C	295 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	288 - 299 °C	550 - 570 °F	
Middle Barrel Temperature	302 - 313 °C	575 - 595 °F	
Front Barrel Temperature	304 - 316 °C	580 - 600 °F	
Melt Temperature	302 - 329 °C	575 - 625 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	82.2 - 121 °C	180 - 250 °F	
Drying Temperature	118 - 124 °C	245 - 255 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0005	

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