

Polymer Resources PC-G5-IM Polycarbonate, 5% Glass Reinforced, Impact Modified, Foamable

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Foam Grade, Glass Filled , Polycarbonate, Impact Modified

Material Notes:

Polycarbonate, 5% Glass Reinforced, Impact Modified, Foamable
 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-G5-IM-Polycarbonate-5-Glass-Reinforced-Impact-Modified-Foamable.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	4.0 - 11 g/10 min @Load 1.20 kg, Temperature 300 °C	4.0 - 11 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.9 MPa	8250 psi	ASTM D638
Tensile Strength, Yield	55.2 MPa	8000 psi	ASTM D638
Flexural Strength	94.80 MPa	13750 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Izod Impact, Notched	2.67 J/cm @Temperature 22.8 °C	5.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 °C	280 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	131 °C	268 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	254 - 266 °C	490 - 510 °F	
Middle Barrel Temperature	293 - 310 °C	560 - 590 °F	
Front Barrel Temperature	293 - 310 °C	560 - 590 °F	
Melt Temperature	288 - 316 °C	550 - 600 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	71.1 - 104 °C	160 - 220 °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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