

Polymer Resources PC-G10 Polycarbonate, 10% Glass Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled

Material Notes:

Polycarbonate, 10% Glass Reinforced Features: • Flame Retardant • Self Extinguishing 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-G10-Polycarbonate-10-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
Melt Flow	5.0 - 12 g/10 min @Load 1.20 kg, Temperature 300 °C	5.0 - 12 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.5 MPa	9500 psi	ASTM D638
Tensile Strength, Yield	62.7 MPa	9100 psi	ASTM D638
Flexural Strength	109 MPa	15800 psi	ASTM D790
Flexural Modulus	3.79 GPa	550 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)	143 °C	290 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	138 °C	280 °F	ASTM D648
UL RTI, Electrical	80.0 °C @Thickness 1.70 mm	176 °F @Thickness 0.0669 in	UL 746
	80.0 °C @Thickness 3.00 mm	176 °F @Thickness 0.118 in	UL 746
UL RTI, Mechanical with Impact	80.0 °C	176 °F	UL 746

Thermal Properties	@Thickness 1.70 mm Metric	@Thickness 0.0669 in English	Comments
	80.0 °C	176 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	80.0 °C	176 °F	UL 746
	@Thickness 1.70 mm	@Thickness 0.0669 in	
	80.0 °C	176 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-2	V-2	
	@Thickness 1.70 mm	@Thickness 0.0669 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	293 - 316 °C	560 - 600 °F	
Middle Barrel Temperature	304 - 327 °C	580 - 620 °F	
Front Barrel Temperature	316 - 338 °C	600 - 640 °F	
Melt Temperature	302 - 329 °C	575 - 625 °F	
Mold Temperature	82.2 - 116 °C	180 - 240 °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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