

Polymer Resources PC/TP-GP2-G20 PC/Polyester Alloy, 20% Glass Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend, Glass Reinforced , Polyester, TP

Material Notes:

Excellent Chemical Resistance, 20% Glass Reinforced
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-PCTP-GP2-G20-PCPolyester-Alloy-20-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 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 - 10 g/10 min @Load 2.16 kg, Temperature 265 °C	5.0 - 10 g/10 min @Load 4.76 lb, Temperature 509 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	72.4 MPa	10500 psi	ASTM D638
Tensile Strength, Yield	72.4 MPa	10500 psi	ASTM D638
Flexural Strength	121 MPa	17500 psi	ASTM D790
Flexural Modulus	4.69 GPa	680 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)	116 °C	240 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0626 in	
	HB @Thickness 3.17 mm	HB @Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	263 - 285 °C	505 - 545 °F	

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	268 - 291 °C	512 - 555 °F	
Front Barrel Temperature	274 - 296 °C	525 - 565 °F	
Melt Temperature	260 - 288 °C	500 - 550 °F	
Mold Temperature	65.6 - 87.8 °C	150 - 190 °F	
Drying Temperature	104 - 110 °C	220 - 230 °F	
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0015	

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