

Polymer Resources PC/TP-GP2-G20 PC Polyester, Excellent Chemical Resistance, 20% Glass Filled (Unverified)

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

Material Notes:

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-PC-Polyester-Excellent-Chemical-Resistance-20-Glass-Filled-nbspUnverified.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
Melt Flow	1.0 - 6.0 g/10 min	1.0 - 6.0 g/10 min	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	2.00 ft-lb/in	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

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	263 - 285 °C	505 - 545 °F	
Middle Barrel Temperature	268 - 291 °C	515 - 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	

Processing Properties	Metric	English	Comments
Dry Time	4 - 6 hour	4 - 6 hour	

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