

Polymer Resources PC/TP-GP2 PC Polyester, High Impact, Excellent Chemical Resistance (Unverified Data**)&

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend , 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-PC-Polyester-High-Impact-Excellent-Chemical-Resistance-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	ASTM D955
Melt Flow	5.0 - 15 g/10 min	5.0 - 15 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	51.7 MPa	7500 psi	ASTM D638
Tensile Strength, Yield	50.3 MPa	7300 psi	ASTM D638
Flexural Strength	74.5 MPa	10800 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	8.54 J/cm	16.0 ft-lb/in	ASTM D256
	4.27 J/cm @Temperature -40.0 °C	8.00 ft-lb/in @Temperature -40.0 °F	ASTM D256
Gardner Impact	>= 36.2 J	>= 26.7 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	98.9 °C	210 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	93.3 °C	200 °F	ASTM D648
Flammability, UL94	HB	HB	1/16 in
	HB	HB	1/8 in

Processing Properties	Metric	English	Comments
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Rear Barrel Temperature Processing Properties	249 - 271 °C Metric	480 - 520 °F English	Comments
Middle Barrel Temperature	254 - 277 °C	490 - 530 °F	
Front Barrel Temperature	260 - 282 °C	500 - 540 °F	
Melt Temperature	246 - 274 °C	475 - 525 °F	
Mold Temperature	65.6 - 87.8 °C	150 - 190 °F	
Drying Temperature	104 - 110 °C	220 - 230 °F	
Dry Time	4 - 6 hour	4 - 6 hour	

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