

Polymer Resources PC/TP-GP1-[color]-3 PC Polyester, High Impact, Good Chemical Resistance, UV-stabilized

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-GP1-color-3-PC-Polyester-High-Impact-Good-Chemical-Resistance-UV-stabilized.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 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	55.2 MPa	8000 psi	ASTM D638
Tensile Strength, Yield	54.5 MPa	7900 psi	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.17 GPa	315 ksi	ASTM D790
Izod Impact, Notched	8.01 J/cm	15.0 ft-lb/in	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)	121 °C	250 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ASTM D648
Flammability, UL94	HB	HB	1/16 in
	HB	HB	1/8 in

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	249 - 271 °C	480 - 520 °F	
Middle Barrel Temperature	254 - 277 °C	490 - 530 °F	

Front Barrel Temperature Processing Properties	260 - 282 °C Metric	500 - 540 °F English	Comments
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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