

Polymer Resources PC/TP-GP3 PC/Polyester Alloy

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

Material Notes:

High Impact, Superior Chemical Resistance
 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-GP3-PCPolyester-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Linear Mold Shrinkage	0.013 - 0.018 cm/cm	0.013 - 0.018 in/in	ASTM D955
Melt Flow	6.0 - 12 g/10 min @Load 2.16 kg, Temperature 265 °C	6.0 - 12 g/10 min @Load 4.76 lb, Temperature 509 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.1 MPa	6400 psi	ASTM D638
Tensile Strength, Yield	46.2 MPa	6700 psi	ASTM D638
Flexural Strength	66.2 MPa	9600 psi	ASTM D790
Flexural Modulus	1.79 GPa	260 ksi	ASTM D790
Izod Impact, Notched	4.81 J/cm @Temperature -40.0 °C	9.00 ft-lb/in @Temperature -40.0 °F	ASTM D256
	8.01 J/cm @Temperature 22.8 °C	15.0 ft-lb/in @Temperature 73.0 °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)	116 °C	240 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.7 °C	170 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0626 in	
	HB	HB	

Thermal Properties	@Thickness 3.17 mm Metric	@Thickness 0.125 in English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	227 - 243 °C	440 - 470 °F	
Middle Barrel Temperature	232 - 249 °C	450 - 480 °F	
Front Barrel Temperature	238 - 260 °C	460 - 500 °F	
Melt Temperature	238 - 260 °C	460 - 500 °F	
Mold Temperature	48.9 - 82.2 °C	120 - 180 °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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