

Proto3000 PC ISO Fused Deposition Modeling Polymer

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Description: PC-ISO (polycarbonate-ISO), an industrial thermoplastic, which in its raw state, meets the ISO 10993-1 and USP Class VI classification 1. PC-ISO blends are commonly used in food and drug packaging and medical device manufacturing because of the material's strength and medical compatibility. When combined with a Fortus 3D Production system, PCISO gives you Real Parts™ that can be used for conceptual modeling, functional prototyping, and end-use parts. Available Colors: White and Translucent Natural Information provided by Proto3000 for their prototyping engineering services.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Proto3000-PC-ISO-Fused-Deposition-Modeling-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	57.0 MPa	8270 psi	Type 1, 2"/min; ASTM D638
Elongation at Break	4.3 %	4.3 %	ASTM D638
	4.3 %	4.3 %	Flexural Elongation; ASTM D790
Tensile Modulus	0.998 GPa	145 ksi	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	Method 1, 0.05"/min; ASTM D790
Flexural Modulus	2.14 GPa	310 ksi	ASTM D790
Izod Impact, Notched	0.860 J/cm	1.61 ft-lb/in	Method A; ASTM D256
Izod Impact, Unnotched	0.530 J/cm	0.993 ft-lb/in	Method A; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	133 °C @Thickness 0.125 mm	271 °F @Thickness 0.00492 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	127 °C @Thickness 0.125 mm	261 °F @Thickness 0.00492 in	ASTM D648
Vicat Softening Point	139 °C	282 °F	ASTM D1525
Glass Transition Temp, Tg	161 °C	322 °F	DAM (SSYS)
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.96	2.96	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.17	3.17	IEC 60250
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	

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