

Proto3000 PC Fused Deposition Modeling Polymer

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

Material Notes:

Description: A true industrial thermoplastic, PC (polycarbonate) is widely used in automotive, aerospace, medical and many other applications. PC offers accuracy, durability and stability, creating strong parts that withstand functional testing. A PC part manufactured on a Fortus 3D Production System is 5-60 percent stronger than a part made on previous FDM systems. It also has superior mechanical properties to ABS and a number of other thermoplastics. When combined with a Fortus system, PC gives you Real Parts™ for conceptual modeling, functional prototyping, manufacturing tools, and end-use-parts. Available Colors: White. Information provided by Proto3000 for their prototyping engineering services.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Proto3000-PC-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
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength at Break	68.0 MPa	9860 psi	Type 1, 2"/min; ASTM D638
Elongation at Break	4.8 %	4.8 %	ASTM D638
	<= 80 %	<= 80 %	Flexural Elongation; ASTM D790
Tensile Modulus	2.28 GPa	331 ksi	ASTM D638
Flexural Strength	104 MPa	15100 psi	Method 1, 0.05"/min; ASTM D790
Flexural Modulus	2.234 GPa	324.0 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	Method A; ASTM D256
Izod Impact, Unnotched	3.20 J/cm	5.99 ft-lb/in	Method A; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	38.0 µm/m-°C	21.1 µin/in-°F	ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	138 °C @Thickness 0.125 mm	280 °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

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-2	V-2	
	@Thickness 1.10 mm	@Thickness 0.0433 in	

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	
Dielectric Strength	15.0 kV/mm	381 kV/in	IEC 60112

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