

Proto3000 PC-ABS Fused Deposition Modeling Polymer

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Description: PC-ABS (polycarbonate-ABS) is one of the most widely used industrial thermoplastics. PC-ABS offers the most desirable properties of both materials - the superior strength and heat resistance of PC and the flexibility of ABS. PC-ABS blends are commonly used in automotive, electronics and telecommunications applications. Additionally, a PC-ABS part manufactured on a Fortus 3D Production System is 5-60 percent stronger than a part made on previous FDM systems. When combined with a Fortus system, PC-ABS gives you Real Parts™ conceptual modeling, functional prototyping, manufacturing tools, and end-use-parts. Available Colors: Black Information provided by Proto3000 for their prototyping engineering services.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Proto3000-PC-ABS-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	110	110	ASTM D785
Tensile Strength at Break	41.0 MPa	5950 psi	Type 1, 2"/min; ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
	70 %	70 %	Flexural Elongation; ASTM D790
Tensile Modulus	1.917 GPa	278.0 ksi	ASTM D638
Flexural Strength	68.0 MPa	9860 psi	Method 1, 0.05"/min; ASTM D790
Flexural Modulus	1.931 GPa	280.1 ksi	ASTM D790
Izod Impact, Notched	1.96 J/cm	3.67 ft-lb/in	Method A; ASTM D256
Izod Impact, Unnotched	4.81 J/cm	9.01 ft-lb/in	Method A; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 °C @Thickness 0.125 mm	230 °F @Thickness 0.00492 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	96.0 °C @Thickness 0.125 mm	205 °F @Thickness 0.00492 in	ASTM D648
Vicat Softening Point	112 °C	234 °F	ASTM D1525
Glass Transition Temp, Tg	125 °C	257 °F	DAM (SSYS)

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 0.850 mm	@Thickness 0.0335 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.0	3.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	3.1	3.1	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60112

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