

PC – Spec Sheet

(to be used on FDM® rapid prototyping machines)

PC is a general purpose polycarbonate filament available in black and white. It has higher thermal properties than ABS and is suitable for a wide variety of applications.

Mechanical Properties	Value	Unit	Test Method
Tensile Modulus	2022	MPa	ASTM D638
Tensile Stress, Type I, 5mm/min	57	MPa	ASTM D638
Tensile Strain, Type I, 5mm/min	5.6	%	ASTM D638
Flexural Modulus 1.3mm/min	1879	MPa	ASTM D290
Izod impact, notched, 23 °C	50	J/m	ASTM D256
Izod impact, unnotched, 23 °C	412	J/m	ASTM D256

Electrical Properties	Value	Unit	Test Method
Volume Resistivity	1.1* 10 ¹⁴	Ohm*cm	ASTM D257

Thermal Properties	Value	Unit	Test Method
HDT, 1.82 MPa, 3.2mm	146	°C	ASTM D648
Coefficient of thermal expansion – flow	71.2	µm/(m*°C)	ASTM E831

Physical Properties	Value	Unit	Test Method
Density	1.19	g/ccm	ASTM D792

Flame Characteristics	Test Method
UL94 Flame Class Rating, 3.0mm	UL94

The given values are typical values only, which are not intended for design or specification purposes. Test parts were printed on a Stratasys® Fortus 380 mc printer under standard parameters. All parts were printed in flat XY-orientation.

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