



# bioPC

An innovative engineering filament that is earth-friendly, human-friendly and printer-friendly

## Description

A copolyester material, boasting heat resistance to 100°C, high impact resistance and chemical resistance. Polycarbonate filaments typically contain Bisphenol A (BPA) – a chemical strongly linked to serious health and environmental impacts. As an ethical brand, we’re pleased to announce that our bioPC is BPA-free. Overall, this is an impressive, easy to print, engineering-grade filament.

		Test Method	Typical Value
<i>Physical Properties</i>	<b>Specific Gravity</b>	ASTM D792	1.24 g/cc

		Test Method	Typical Value
<i>Mechanical Properties</i>	<b>Impact Strength</b>	ASTM D256	NO BREAK
	<b>Yield Strength</b>	ASTM D638	49 MPa
	<b>Tensile Strength</b>	ASTM D638	40.3 MPa
	<b>Strain at Yield</b>	ASTM D638	6.7%
	<b>Strain at Break</b>	ASTM D638	210%
	<b>E-Modulus</b>	ASTM D790	148 MPa

		Test Method	Typical Value
<i>Thermal Properties</i>	<b>Printing Temperature</b>	Filamentive	260-290°C
	<b>Heat Deflection Temperature</b>	ASTM D648	104°C

	Diameter	Tolerance	Roundness
<i>Filament Specifications</i>	<b>1.75mm</b>	± 0.05mm	>95%
	<b>2.85mm</b>	± 0.05mm	>95%