

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 | 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 | Test Method |
|-----------------------|---------|-------------|
| Volume Resistivity | 1.1E+14 | ASTM D257 |

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

| Flame Characteristics | Test Method |
|---|-------------|
| Flame Characteristics are available on request. | - |

The given values are typical values only, which are not intended for design or specification purposes. Test parts were printed on a Stratasys® Fortus 250 mc printer under standard parameters. All parts were printed in flat XY-orientation.

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