



Polycarbonate (PC) Resin is an amorphous thermoplastic, commonly used for its design versatility. Polycarbonate is a transparent plastic that offers high heat resistance (up to 140°C), high-impact resistance, and can be sterilized. Readyprint™ PC complies with REACH and RoHS standards, and has EU 10/2011 and FDA 21 CFR food contact certifications. Readyprint™ PC meets the demands for parts in aerospace, consumer electronics, automotive, helmets, and toys. AON3D PC has the following properties:

- Can be sterilized
- Resistant to heat (up to 140°C)
- Food contact certification EU 10/2011, FDA 21 CFR
- Complies with the REACH and RoHS standards

2-year AON3D warranty.

Get Process Parameters at [DOCS.AON3D.COM](https://docs.aon3d.com)

### Filament Properties

Properties	Test Methods	Values
Diameter	INS-6712	1.75 ± 0.1 mm
Density	ISO 1183-1	1.193 g/cm <sup>3</sup>
Moisture Rate	INS-6711	< 1 %
Melt Flow Index (MFI)	ISO 1133-1 (@220°C – 10 kg)	25.5 g/10 min

### Printed Specimens Properties

Properties	Test Methods	Values
Maximum Use T°	–	140 °C
Tensile Modulus	ISO 527-2/5A/50	2172 MPa
Tensile Strength	ISO 527-2/5A/50	53.8 MPa
Tensile Stress at Strength	ISO 527-2/5A/50	3.7 %
Tensile Stress at Break	ISO 527-2/5A/50	44.6 MPa
Tensile Strain at Break (type A)	ISO 527-2/5A/50	4.8 %
Flexural Modulus	ISO 178	1.640 MPa
Deformation at Flexural Strain	ISO 178	>5 %
Flexural Stress at Conventional Deflection (3,5% strain)*	ISO 178	67.7 MPa
Charpy Impact Resistance	ISO 179-1/1eA	7.8 kJ/m <sup>2</sup>
Shore Hardness	ISO 868	79.2D

\*According to ISO 178, end of the test at 5% deformation even if there is no specimen break.

\*The data should be considered as indicative values – Properties can be influenced by production conditions.