



Carbon Fiber PETG

AON3D Readyprint™ PETG Carbon (polyethylene terephthalate glycol) is a composite filament of PETG and chopped carbon fibers. The addition of carbon fiber in PETG offers a significant increase to its strength and stiffness along with great printability and dimensional stability, making it an optimum choice for functional prototypes, manufacturing jigs or end-use parts. PETG complies with RoHS and REACH standards. AON3D Carbon Fiber PETG has the following properties:

- High rigidity
- Complies with the REACH and RoHS standards
- Improve ratio between: Ease of printing / Rigidity

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	1.28 g/cm ³
Melt Flow Index (MFI)	ISO 1133-1 (@225°C – 2.16 kg)	6.5 g/10 min
Glass Transition Temperature (Tg)	ISO 11357-1	78 °C

Printed Specimens Properties

Properties	Test Methods	Values
Tensile Modulus	ISO 527-2/1A/50	7.773 MPa
Tensile Strength	ISO 527-2/1A/50	92.9 MPa
Tensile Stress at Strength	ISO 527-2/1A/50	1.9%
Tensile Stress at Break	ISO 527-2/1A/50	92.9 MPa
Tensile Strain at Break (type A)	ISO 527-2/1A/50	1.9%
Flexural Modulus	ISO 178	5.664 MPa
Deformation at Flexural Strain	ISO 178	4.2%
Flexural Strength*	ISO 178	138 MPa
Flexural Stress at Conventional Deflection (3,5% strain)*	ISO 178	120.6 MPa
Flexural Stress at Break	ISO 178	42.2 MPa
Deformation at Flexural Strength	ISO 178	3.1 %
Charpy Impact Resistance	ISO 179-1/1eA	4.6 kJ/m ²
Shore Hardness	ISO 868	78.8D

*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.