



PETG

Readyprint™ PETG (polyethylene terephthalate glycol) is an amorphous thermoplastic polymer commonly used for rapid prototyping due to its low cost and printability. PETG offers flexible but mechanical resistant parts, and is available as a translucent filament. PETG is food contact certified under EU 10/2011 and complies with RoHS and REACH standards. AON3D PETG has the following properties:

- Odorless
- Offers a perfect balance between flexibility and mechanical properties
- Food contact certified under EU 10/2011 and FDA 21 CFR (natural color only)
- Complies with the RoHS and REACH 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	1.274 g/cm ³
Moisture rate	INS-6711	< 1 %
Melt Flow Index (MFI)	ISO 1133-1 (@225°C – 2.16 kg)	12.1 g/10 min
Glass Transition Temperature (Tg)	ISO 11357-1	80 °C

Printed Specimens Properties

Properties	Test Methods	XY	ZX
Tensile Modulus	ISO 527-2/1A/50	2158 MPa	2.057 MPa
Tensile Strength	ISO 527-2/1A/50	52.5 MPa	39.3 MPa
Tensile Stress at Strength	ISO 527-2/1A/50	3.4 %	2.3 %
Tensile Stress at Break	ISO 527-2/1A/50	52.5 MPa	39.3 MPa
Tensile Strain at Break (type A)	ISO 527-2/1A/50	3.4 %	2.3 %
Flexural Modulus	ISO 178	1.850 MPa	1.636 MPa
Deformation at Flexural Strain	ISO 178	0%	4.4 %
Flexural Strength*	ISO 178	– MPa	63.9 MPa
Flexural Stress at Conventional Deflection (3,5% strain)*	ISO 178	69.7 MPa	58.9 MPa
Flexural Stress at Break	ISO 178	0 MPa	63.9 MPa

Printed Specimens Properties

Properties	Test Methods	XY	ZX
Deformation at Flexural Strength	ISO 178	0 %	4.5 %
Charpy Impact Resistance	ISO 179-1/1eA	3.991 kJ/m ²	1.4 kJ/m ²
Shore Hardness	ISO 868	76.6D	74.1D