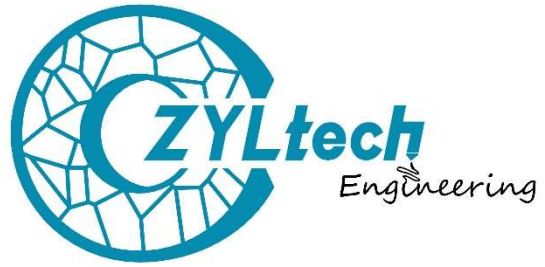


PETG Filament

Technical Data Sheet



Product Description

ZYLtech PETG filament is made of environment friendly glycol-modified polyethylene terephthalate and is known for wide color selection, chemical resistance, making it an excellent choice for a wide range of 3D printing applications. Renowned for its high optical transparency, low odor, and zero VOCs, ZYLtech PETG delivers consistent performance to meet the demands of professionals and hobbyists alike.

Each spool is manufactured using premium virgin PETG resin sourced directly from a highly reputable resin manufacturer. Our stringent quality assurance ensures that every spool is traceable to its specific batch, maintaining the highest standards of material integrity and consistency.

Produced in our state-of-the-art Houston extrusion facility, ZYLtech PETG filament undergoes meticulous testing for quality and performance. By combining top-quality, U.S.-sourced raw materials with advanced formulation, we ensure reliable results with every spool, providing customers with the confidence they need for their 3D printing projects.

Filament Specifications

Parameter	Value
Filament Diameter	1.75 mm
O. D. Tolerance	± 0.01 (95% Probability) ± 0.02 (100% Probability)
Ovality	< 0.02 mm
Net Filament Weight	1 kg

Spool Specifications

Parameter	Value
Spool Diameter	198 mm
Spool Height	60 mm
Hole Diameter	58 mm
Spool Material	ABS
Spool Heat Deflection Temperature	90°C (with forced-air circulation)
Spool Weight	150 g

Recommended Printer Setting

Parameter	Value
Bed Temperature	65 – 80 °C for PEI build plate
Nozzle Temperature	230 – 270 °C
Chamber Temperature	20 – 50 °C
Print Speed	up to 300 mm/s
Maximum Flow Rate	8 – 13 mm ³ /s
Part Cooling Fan	10 – 40%
Drying Recommendation	55 – 65 °C 24Hr in filament dryer

Typical Properties

Physical Property	Value	Test Method
Density	1.27 g/cm ³	ISO 1183
Thermal Property	Value	Test Method
Melting Temperature	210 – 230 °C	ISO 11357
Heat Deflection Temperature, 0.45 MPA, Unannealed	70 – 72 °C	ISO 75
Mechanical Property	Value	Test Method
Young's Modulus	1500 – 1900 MPa	ISO 527
Tensile Strength at Yield	44-49 MPa	ISO 527
Elongation at Yield	4.1 %	ISO 527
Elongation at Break	24%	ISO 527
Flexural Modulus	1400 – 1800 MPa	ISO 178
Izod Impact Strength, Unnotched (23 °C)	Not Break	ISO 180
Izod Impact Strength, Notched (23 °C)	9 – 15 KJ/m ²	ISO 180

Disclaimer:

The information included in this document is for reference purposes only. Testing results may vary between colors and batches. Printing conditions also greatly affect the testing results. It is the user's responsibility to determine whether the filament and the information in this document are appropriate for any specific application. Zyltech Engineering LLC assumes no obligation or liability for the information in this document.

For additional information, please contact Zyltech Engineering LLC customer support email csr@zyltech.com.