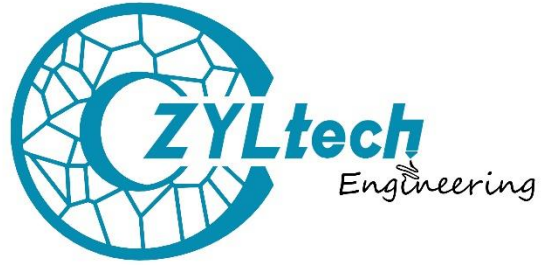


PETG Filament

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 , 1.8 MPA, unannealed | 68 – 72 °C | ISO 75 |
| Mechanical Property | Value | Test Method |
| Young's modulus | 1500 – 1900 MPa | ISO 527 |
| Tensile Strength at break | 59 – 69 MPa | ISO 527 |
| Breaking elongation | 240 % | ISO 527 |
| Flexural modulus | 1400 – 1800 MPa | ISO 178 |
| 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.