



PETG



Fused Deposition Modelling
(FDM)
Material Datasheet



A strong, versatile thermoplastic offering improved durability and chemical resistance compared to PLA. Available in multiple colours, clear & CF.

| Measurement | Normal PETG | Clear | Carbon-Filled |
|---------------------------------|--|--|---|
| Tensile Strength (Z) | 23 ± 4 MPa | 29 ± 3 MPa | 29 ± 4 MPa |
| Tensile Strength (X-Y) | 34 ± 4 MPa | 33 ± 4 MPa | 35 ± 5 MPa |
| Breaking Elongation Rate (X-Y) | 8.6 ± 1.2 % | 8.2 ± 1.3 % | 10.4 ± 0.6 % |
| Breaking Elongation Rate (Z) | 5.1 ± 0.8 % | 5.2 ± 0.9 % | 4.7 ± 0.4 % |
| Young's Modulus (X-Y) | 1810 ± 190 MPa | 1420 ± 160 MPa | 2460 ± 230 MPa |
| Young's Modulus (Z) | 1540 ± 130 MPa | 1230 ± 140 MPa | 1340 ± 150 MPa |
| Bending Modulus (X-Y) | 2050 ± 120 MPa | 1610 ± 130 MPa | 2910 ± 260 MPa |
| Bending Modulus (Z) | 1810 ± 140 MPa | 1520 ± 110 MPa | 1560 ± 180 MPa |
| Impact Strength (X-Y) | 31.5 ± 2.2 kJ/m ² ; 6.2 ± 1.8 kJ/m ² (notched) | 37.4 ± 3.3 kJ/m ² ; 8.6 ± 2.1 kJ/m ² (notched) | 41.2 ± 2.6 kJ/m ² ; 15.7 ± 1.6 kJ/m ² (notched) |
| Impact Strength (Z) | 10.6 ± 1.2 kJ/m ² | 7.2 ± 1.8 kJ/m ² | 10.7 ± 1.6 kJ/m ² |
| Heat Resistance (HDT, 0.45 MPa) | 69 °C | 74 °C | 74 °C |

Actual values may vary depending on build conditions. Our technical team can advise.