

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.