

PETG

Technical Data Sheet

1. Identification

Trade name	PETG
Chemical name	Polyethylene Terephthalate Glycol
Chemical family	Polymer
Use	Monofilament for 3D printing

2. Filament Processing Parameters

Nozzle Temperature	240 – 270 °C
Bed Temperature	60 – 70 °C

3. Filament Specifications

Diameter	1.75 / 2.85 ± 0.03 mm
Max. roundness deviation	0.05
Net filament weight	1000g
Filament length	330 / 123 m

4. Material Properties - Tensile Test

Test Method: ASTM D 638

Test Parameters	Results (PETG 50)	Results (PETG 100)
C/S size (mm)	13.26 x 3.10	13.27 x 3.13
C/S area (mm ²)	41.11	41.54
Ultimate load (N)	249	1210
Ultimate tensile strength (N/mm ²)	6.06	29.13

Elongation at ultimate load (%)	0.40	2.20
Breaking strength (N/mm ²)	5.60	29.13
Elongation at break (%)	1.20	2.20
Tensile Modulus (N/mm ²)	2627.35	1675