



Description

PETG has excellent properties and is one of the most popular filaments. Due to its structure, PETG material has solid, temperature-resistant (up to 80°C) and durable properties. Our PETG filaments are very easy to print which makes them great for beginners. Because of its properties, PETG can be used for many different applications from decorations, tools, and prosthetics to mechanical products and robotics.

Typical properties

	Standard	Value	Unit
Specific gravity	ISO 1133	1.29	g/cc
Melt flow rate	/	/	cm ³ /10 min
Melting temp.	ISO 294	180-250	°C
Heat deflect. temp.	ISO 75	73	°C

Typical properties (3D printed)

	Standard	XY Value	XZ Value	ZX Value	Unit
Tensile Strength	ISO 527-2	56.7	59.2	38.4	MPa
Yield Strength	ISO 527-2	37.5	38.2	0.0	MPa
Tensile Modulus	ISO 527-2	2100	2200	2100	MPa
Strain at Yield	ISO 527-2	8.7	4.3	2.3	%
Flexural Strength	ISO 178	82.3	87.4	64.0	MPa
Flexural Modulus	ISO 178	2200	2300	2200	MPa
Impact Strength	ISO 179	/	/	/	kJ/m ²

All specimens were printed with 100% infill, 2 shells and a layer height of 0.2mm

Printing recommendations

	Standard	Value	Unit
Printing temp.	AF	220-240	°C
Bed temp.	AF	80-90	°C
Printing speed	AF	50-200	mm/s
Cooling	AF	40	%
Bed surface	/	PEI, Glass, BUILDTAK	/

