



TECHNICAL DATA SHEET PETG

DESCRIPTION

Polyethylene Terephthalate Glycol (PETG) is one of the world's most common thermoplastic polymers. Extrudr PETG was developed for a wide range of applications where the main requirement is a good balance between mechanical and optical material properties. The raw material is approved according to the FDA-, REACH- and RoHS-Standards. PETG is flame retardant according to UL 94 at a wall thickness of 3.2 mm.

FEATURES

- Good mechanical properties
- High chemical resistance
- Low warping tendency
- Low shrinking
- Recycleable

PROPERTIES ¹

TEST	METHOD	UNIT	VALUE
Flexural modulus (E-Modulus)	ISO 178	MPa	2100
Flexural strength	ISO 178	MPa	68
Tensile modulus (E-Modulus)	ISO 527	MPa	3100
Yield stress	ISO 527	MPa	51
Elongation at yield	ISO 527-2	%	4
Strength	ISO 527	MPa	61
Elongation at strength	ISO 527	%	4
Nominal elongation at break	ISO 527-2	%	28
Notched impact strength	ISO 180	kJ/m ²	4,7
Unnotched impact strength	ISO 180	kJ/m ²	no break
VICAT A (VST)	ISO 306	°C	78*
Melting temperature	ISO 3146-C	°C	180-200
MFR	ISO 1133	g/10min	6
Shrinking	ISO 294-4	%	0,5
Density	ASTM D792	g/cm ³	1,29
Flammability	UL 94	V-2	-

*Temperature resistance tested at a minimum wall thickness of 4 mm.

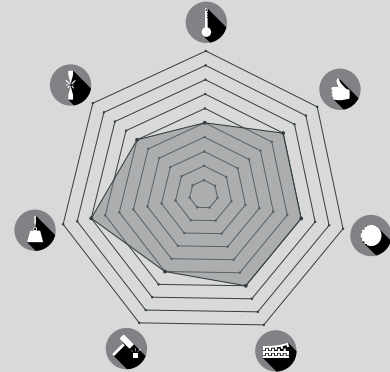
CERTIFICATIONS & ADDITIONAL INFORMATION ²



STORAGE AND SHELF LIFE

Store in a dry room at room temperature (18-27°C / 65-80°F). Keep out of direct heat and sunlight. When stored correctly, this material has a shelf life of 2 years.

1. Additional info in our regulatory, additional information and chemical resistance data sheets.
 2. Certifications depend on colors in final product. More info in the additional information sheet.



TEMPERATURE RESISTANCE 5

EASE OF PRINTING 7

VISUAL QUALITY 7

LAYER ADHESION 7

IMPACT RESISTANCE 6

MAXIMUM STRESS 8

ELONGATION AT BREAK 6

PRINT SETTINGS

Nozzle	210-230°C
Heatbed	60-70°C
Adhesive	not required
Speed	40-60mm/s
Cooling	20-50%

Recommended settings for printers with a 0.4mm Nozzle. Max. 50% layerheight. Optimal print settings may vary between different printers and also depend on environmental factors.

NEED HELP?

If you have any question about the product and/or you are experiencing an issue, please contact us via support@extrudr.com

