



TECHNICAL DATA SHEET

PETG

1. DESCRIPTION

Polyethylene terephthalate glycol (PETG) is one of the world's best-known thermoplastic polymers. Extruder PETG has been developed for a wide range of applications where the main requirement is a good balance between mechanical and optical material properties. The low-shrinking technology ensures that the material can be processed in an energy-saving manner at low temperatures and thus with relatively little distortion. The raw material is certified according to FDA, REACH and RoHS standards.

2. FEATURES

- Good mechanical properties
- High chemical resistance
- Low warping
- Low shrinking
- Recyclable
- Low-shrinking technology

3. PROPERTIES

TEST	METHOD	UNIT	VALUE	PRINT SETTINGS	
Flexural modulus (E-Modulus)	ISO 178	MPa	2100	Nozzle	210-230°C
Flexural strength	ISO 178	MPa	68	Heatbed	60-90°C
Tensile modulus (E-Modulus)	ISO 527	MPa	3100	Adhesive	not required
Yield stress	ISO 527	MPa	51	Speed	20-200mm/s
Elongation at yield	ISO 527-2	%	4	Cooling	20-50%
Strength	ISO 527	MPa	61	Enclosed Space	for larger components
Elongation at strength	ISO 527	%	4	Hardened Nozzle	no
Nominal elongation at break	ISO 527-2	%	28	Max. Volumetric Speed	12 mm ³ /s
Notched impact strength	ISO 180	kJ/m ²	4,7	<p>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.</p>	
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	3,2 mm		

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

4. CERTIFICATIONS & ADDITIONAL INFORMATION



FDA
compliant



RoHS
compliant



REACH
compliant



FREE
of Silicone



TOY SAFE
compliant



FLAMERETARDANT
UL 94 V-2

Certifications depend on colors in final product. More info in the additional information sheet.

5. 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.

Additional info in our regulatory, additional information and chemical resistance data sheets.