



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.

FEATURES

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

PROPERTIES

| 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 |

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

CERTIFICATIONS & ADDITIONAL INFORMATION



RoHS
COMPLIANT



REACH
COMPLIANT



FREE OF
SILICONE



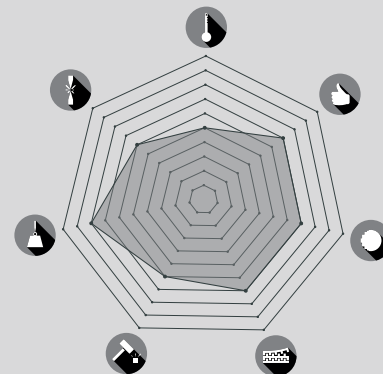
RECYCLABLE

For more information, check our [regulatory information](#) and [chemical resistance data sheets](#).

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

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.



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

