

Material Data Sheet



PETG

Description:

Polyethylenterephthalat (PET) is a thermoplastic Material, which the most people know in form of PET-bottles. PETG is a glycol-modified PET, which is known for transparency and it is nearly undestroyable. It is easy to print like PLA and in terms of mechanical characters even a bit better than ABS.

Storage:

Store at room temperature, out of direct heat and sunlight and in a dry place.

Identification:

Name	PETG
Chemical Name	Polyethylenterephthalat + Glykol
Usage	FDM 3D Printing
Manufacturer	Material 4 Print GmbH & Co. KG, Germany

Properties:

Test	Value	Method
Specific Gravity	1,27 g/cm ³	ASTM D792
Elongation at Break	70%	ASTM D638
Tensile Strength	53 MPa	ASTM D638
Flexural Modulus	2150 MPa	ASTM D790
Melting Point	200 - 230 °C	ASTM D3418
Heat Distortion Temperature	70 °C	ASTM D648
Flammability	HB	UL-94

Print Settings:

Nozzle Temperature	225-255 °C
Bed Temperature	60-80 °C

Certificate:



Colors (ca. RAL) :

- | | |
|--------------------------|---------------------|
| ● Eisengrau (7011) | ● Leuchtröt (3024) |
| ● Leuchtgrün (6038) | ● Transp. Gelb |
| ● Tiefschwarz (9005) | ● Transp. Grün |
| ○ Signalweiß (9003) | ● Transp. Rot |
| ● Transparent | ● Transp. Blau |
| ● Signalblau (5005) | ● Transp. Schwarz |
| ● Verkehrsgelb (1023) | ● Himmelblau (5015) |
| ● Leuchthellorange(2007) | ● Reinrot (3028) |
| ● Graualuminium (9007) | ● Staubgrau (7037) |

These data were taken from the raw material manufacturer.