

Technical Data Sheet

Chemical Name:

Poly-ethylene Terephthalate Glycol

Main Applications:

Concept modeling, Educational projects, Design projects, Practical applications including food packaging.

Description:

An easy to use material that has many benefits. It is stronger and more temperature resistant than PLA. Compared with ABS it is just as strong as ABS but can be printed with much less warping, as well as having the benefit of being odourless.

Key Aspects:

PETG is used for many applications due to its good mechanical and aesthetic characteristics. It is often used for applications which need to contain food and water. It is recommended the filament is kept in a dry container. It is important to tune the retraction settings to reduce stringing.

Certifications:

Our PETG has been approved by the FDA. It delivers outstanding printing performance without hazardous components such as styrene or BPA.

Diameter:

1.75 mm, 2.85 mm

Meters per 750 g:

245.522 / 92.571

Weight

750 g

Weight per meter:

3.05 / 8.10 g

Density:

1.27

Meters per kg:

327.363 / 123.429



Color Information:

Color:

PANTONE:

Black	6C
Gray	8402 C
Natural	--
White	11-4001
Translucent Blue	2935 C
Translucent Green	17-6153 TCX
Translucent Orange	1505 C
Translucent Purple	228 C
Translucent Red	485 C
Translucent Yellow	1235 C

Printing Settings

Printing Temperature	225 - 250 °C
Density (g/cc)	1.27
Build Plate Temperature	Required 70-90 °C
Cooling Fans	YES

Mechanical Properties

Typical

ASTM Method

Tensile stress at yield, psi (MPa):	50 (510)	D 638
Tensile strength at break, psi (MPa):	26 (265)	D 638
Elongation at yield %:	4,5	D 638
Elongation at break %:	120	D 256
Flexural Strength, psi (MPa):	71 (720)	D 790
Flexural Modulus, kpsi (MPa):	2150 (21900)	D 790
Izod Impact Strength, ft-lb/in (J/m):	85	D 256

Disclaimer:

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