

Technical data sheet (PETG)

Co-Polyester Polyethylene Terephthalate Glycol

Description

Polyethylene terephthalate glycol (PETG) co-polyester is a high-strength, easy-to-print filament and highly translucent. This, added to its impact resistance and flexibility, make PETG an attractive option since it adopts the most advantageous characteristics of PLA and ABS and even adding a particularity that these last two do not have, it does not absorb water.

It is suitable to produce food packaging in accordance with the criteria of Regulation (EU) No. 10/2011 and compatible with EN 1343 models.

Material Properties

Density	1.27 g/cm ³ ASTM D792
Chemical Name	Polyethylene glycol terephthalate

Print Settings

Nozzle temperature	230 - 245°C
Bed temperature	40 - 60°C
Active cooling fan	100%

Mechanical Properties

Rockwell Hardness	105	ASTM D785
Tensile strength yield	50 MPa	ASTM D638
Tensile strength break	26 MPa	ASTM D638
Elongation @ break	120%	ASTM D638

Filament Specification

Diameter	1.75 mm & 2.85 mm
Tolerance	± 0.05

Storage & Handling

During storage, the product may acquire humidity if exposed to fresh air. The humidity it absorbs depends on the temperature, humidity, and time of exposure. Therefore, it should be stored in its packaging in a cool place and kept at temperatures below 50°C. No special restrictions on storage with other products.

Expiration Date (Shelf Life)

If stored correctly and in its original packaging, the product can be used up until 24 months after opening. If the product is stored in a package that has been exposed to humidity during an extended amount of time, it could deteriorate and lose its mechanical and physical properties, even after drying.

Security

This product is not classified as dangerous according to the CE Regulation No 1272/2008, and therefore is not subject to special transport regulations. This product does not melt at room temperature.

Suitable for food contact	Yes (EU) 10/2011
Suitable for Toys	Yes
Suitable for packaging	Yes

****Disclaimer:** The product and technical information provided in this datasheet is correct to the best of our knowledge. The information given is provided as a guidance for good use, handling and processing and is not to be considered as a quality specification. The information only relates to the specific product and the material properties.