

## Technical data sheet (PETG UV)

### Co-Polyester Polyethylene Terephthalate Glycol + UV additive

#### Description

Polyethylene terephthalate glycol (PETG) copolyester with UV additive is a high-strength, easy-to-print filament with UV colour fastness properties. This, coupled with its impact resistance and flexibility, makes PETG an attractive option for outdoor use as it adopts the most advantageous characteristics of PLA and ABS and even adds a feature that the latter two do not have - it does not absorb water.

#### Material Properties

Density	1.27 g/cm <sup>3</sup> ASTM D792
Chemical Name	Polyethylene glycol terephthalate
Additives	UV Filter

#### 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
Light Fastness (Scale 1 – 8)	8 Direct Exposure – Over 1.5 years Normal Conditions – Over 100 years	Blue Wool Rating

#### 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	No (EU) 10/2011
Suitable for Toys	No
Suitable for packaging	No

**\*\*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.