

# PETG

## Technical Data Sheet

### 1. Identification

Trade name	PETG
Chemical name	Polyethylene Terephthalate Glycol
Chemical family	Polymer
Use	Monofilament for 3D printing
Company	Tesseract, Shop no.2, 196A Tara House, Dr. Viegas Street, Marine Lines, Mumbai - 400002
Telephone	+91 9930550709, +91 7977220865, +91 826841506

### 2. Filament Processing Parameters

Nozzle Temperature	240 – 270 °C
Bed Temperature	60 – 70 °C

### 3. Filament Specifications

Diameter	1.75 / 2.85 ± 0.03 mm
Max. roundness deviation	0.05
Net filament weight	1000g
Filament length	330 / 123 m

### 4. Material Properties - Tensile Test

Test Method: ASTM D 638

Test Parameters	Results (PETG 50)	Results (PETG 100)
C/S size (mm)	13.26 x 3.10	13.27 x 3.13
C/S area (mm <sup>2</sup> )	41.11	41.54
Ultimate load (N)	249	1210
Ultimate tensile strength (N/mm <sup>2</sup> )	6.06	29.13

Elongation at ultimate load (%)	0.40	2.20
Breaking strength (N/mm <sup>2</sup> )	5.60	29.13
Elongation at break (%)	1.20	2.20
Tensile Modulus (N/mm <sup>2</sup> )	2627.35	1675

## 5. Other Information

-The information in this Material Safety Data Sheet (MSDS) is based on current knowledge and experience. No liability can be assumed for the accuracy and completeness of this information.

-The information in this MSDS applies for this specific material only. It therefore does not apply for its usage in combination with other materials or ways of processing.

-Users should consider this information only as additional to other data gathered. Independent determination of suitability and completeness of information from all available sources is essential to ensure proper and safe use and disposal of these materials.

-This information is furnished without warranty, express, or implied. This information is believed to be accurate to the best of knowledge of Rever Industries.

-This information should help to make an independent determination of the methods to ensure proper and safe use and disposal of the filament