

Description

The *Premium 3D Printer Filament—PETG* is made with polyethylene terephthalate glycol-modified (PETG) pellets. PETG is a high strength transparent thermoplastic with excellent moisture and chemical resistance.

Applications & Usages

The PETG filament has very low shrinkage.

Benefits and Features

- **1.75 mm diameter**
- **Low diameter variance**
- **Low odor**
- **Low shrinkage**

3D-Filament Processing Parameters

<i>Processing Parameters</i>	<i>Recommendations</i>
Working Temperature	210–240 °C [410–464 °F]
Bed Temperature	Not required

a) Values may vary depending on the printer type, environmental conditions, and color of filament.
Adjust print temperatures by 5 °C until ideal flow and bed adhesion is obtained.

3D-Filament Properties

<i>Quality Control</i>	<i>Method</i>	<i>Value</i>
Specific Gravity	ASTM D 1505	1.27 g/cm ³

<i>Physical Properties</i>	<i>Method</i>	<i>Value</i>
Tensile Strength	ASTM D 882	50 N/mm ² [7 300 lb/in ²]
% Elongation	"	10%
Flexural Modulus	"	1 800 N/mm ² [260 000 lb/in ²]

Storage and Shelf Life

Store between 18 to 27 °C [65–80 °F] and protect from direct heat or sunlight. Keep sealed in an air tight container, away from humidity.

Shelf Life	Value
Unopened package	1 y from the date of purchase
Opened package	Variable depending on storage conditions

Health and Safety

Please see the *Premium 3D Printer Filament-PETG Safety Data Sheet* (SDS) for more details on transportation, storage, handling and other security guidelines.

Environmental Impact: This product doesn't have any known environmental toxicity.



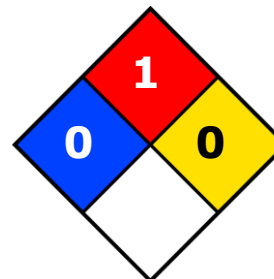
This product meets the European Directive 2011/65/EU Annex II (ROHS); recasting 2002/95/EC.

Health and Safety: This product is not considered to be hazardous for human health under normal use. It is widely used in the packing and food industry.

HMIS® RATING

HEALTH:	0
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

Packaging and Supporting Products

Available Colors



Natural



White



Black



Red



Blue

Available Sizes

<i>Diameter</i>	<i>Filament Length</i>	
	0.50 kg spools	1.0 kg spools
1.75 mm	160 m	320 m

<i>Spool Weight</i>	<i>Dimensions</i>		
	Inner diameter	Outer diameter	Width
0.50 kg	32 mm	160 mm	57 mm
1.00 kg	57 mm	180 mm	92 mm

<i>Diameter</i>	<i>Spool Weight</i>	<i>Net Volume</i>		<i>Net Weight</i>	
	kg	L	qt	kg	lb
1.75 mm	0.50	0.394	0.416	0.50	1.1
	1.00	0.787	0.832	1.0	2.2

Supporting Products

- 3D Printing Masking Tape, Cat. No. MAS100-15, MAS200-15
- 3D Printing Polyimide Tape, Cat. No. POL100, POL200
- Acetone, Cat. No. 434-1L, 434-4L
- d-Limonene, Pure Grade: Cat. No. 433-1L, 433-4L



ISO 9001 Registered Quality System.
Burlington, Ontario, Canada QMI File # 004008

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PETG

Technical Support

Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

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Warranty

M.G. Chemicals Ltd. warrants this product for 12 months from the date of purchase by the end user. *M.G. Chemicals Ltd.* makes no claims as to shelf life of this product for the warranty. The liability of *M.G. Chemicals Ltd.* whether based on its warranty, contracts, or otherwise shall in no case include incidental or consequential damage.

Disclaimer

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. *M.G. Chemicals Ltd.* does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.