



## Technical Data Sheet

### Product Details

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Product name: PETG

Model number: PETG

Applicable industrial: Suitable for jewelry industry, dental, clock, glasses, teaching and scientific research, toy design, handicraft design, industrial parts design, etc

Manufacturer: Shenzhen Yongchanghe Technology CO., LTD.

Add: 1001, Huaide international building, No. 73, Fuyong section, Guangshen Road, Fuyong community, Fuyong street, Bao'an District, Shenzhen

Tel: 0755-27889946

Zip code: 518103

### Product Advantages

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Low odor, high precision, no clogging, no bubbles, no warping, smooth and delicate finish, the filament is not easily brittle.

Compared to regular materials, it has a higher surface quality, better detail performance, and good compatibility.

### Product Technical Parameters before Curing

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Viscosity: 1.23-1.31mPa · s (NDJ-8S rotary rheometer (25°C) )

Density: 9.72g/10min (230°C ,2.16Kg)

### Principle of 3D Printing

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Linear thermoplastic material is heated and melted by the printer's nozzle heater, then extruded through a nozzle with a certain aperture. Following computer-sliced models, it is deposited on the printing bed, rapidly cooled, solidified, and adhered to the previous layer of material after extrusion. This layer-by-layer buildup method creates the final product.

## Recommended Print Parameters

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Printing Temperature: 220 - 250° C

Bed Temperature: 75 - 90° C

Printing Speed: 50 - 100mm/s

Printing Bed: Glass/Carbon Fiber + Solid Glue or 3M Blue Painter's Tape

Cooling Fan: 100%

### **Chemical Properties:**

Weak Acid Resistance: Not Resistant

Strong Acid Resistance: Not Resistant

Weak Alkali Resistance: Not Resistant

Strong Alkali Resistance: Not Resistant

Organic Solvents/Oil Resistance: Not Resistant

Light Resistance: Not Resistant

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### **Performance Parameters:**

Tensile Strength (MPa):  $45.99 \pm 10\%$

Fracture Elongation (%):  $10.71 \pm 10\%$

Maximum Bending Strength (MPa):  $59 \pm 10\%$

Bending Elastic Modulus (MPa):  $1080 \pm 10\%$

Cantilever Beam Notched Impact Strength (J/m):  $326 \pm 10\%$

Heat Deformation Temperature: 64° C (0.45MPa)

## Storage, Packaging, Transportation, and Storage:

### Marking

The product's outer packaging should have clear markings, including the trademark, manufacturer's name and address, standard number, product name, specifications, production date, batch number, and net content.

### Packaging

Use sealed and moisture-proof packaging that is sturdy, secure, and easy to transport.

