



Technical Data Sheet

Product Details

Product name: Flash PLA+

Model number: GPLA

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

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 allows for faster printing, higher surface quality, better detail performance, and good compatibility.

Product Technical Parameters before Curing

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

Density: 10.68g/10min (190°C ,2.16Kg)

Principle of 3D Printing

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

Printing Temperature: 200 - 230° C

Bed Temperature: 45 - 60° C

Printing Speed: 50 - 450mm/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: /

Light Resistance: /

Performance Parameters:

Tensile Strength (MPa): $40.4 \pm 10\%$

Fracture Elongation (%): $19.59 \pm 10\%$

Maximum Bending Strength (MPa): $72 \pm 10\%$

Bending Elastic Modulus (MPa): $2275 \pm 10\%$

Cantilever Beam Notched Impact Strength (J/m): $183 \pm 10\%$

Heat Deformation Temperature: 54°C

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.

