

PETG2506NC901-TDS

PETG for 3D printing

It is an enhanced PETG material, professionally adapted to large-scale equipment for 3D printing pellets. It features high strength, great fluidity, low odor, excellent waterproofing, and resistance to chemicals and yellowing. The mechanical and printing performance are well-balanced. The printed products are sturdy and durable. The unique formulation from POLYFUL effectively solves warping problems, making it easy to print and mold with relatively great dimensional stability. The surface has a matte sandblasted texture, making it suitable for 3D-printed outdoor architectural facilities and large sculptural components that require high impact and shock resistance.

Part 1 Physical Properties

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values
Density	23°C	ISO 1183	g/cm ³	1.47
Melt Flow Rate	220°C,10kg	ISO 1133	g/10min	18

Note: The typical physical properties are not intended for use as sales specifications.

Part 2 Mechanical Properties

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values
Tensile Strength	5mm/min	ISO 527-1	MPa	90
Elongation @ Break	5mm/min	ISO 527-1	%	5
Flexural Strength	2mm/min	ISO 178	MPa	140
Flexural Modulus	2mm/min	ISO 178	MPa	7000
Impact Strength, Notched	1J	ISO 179-1	kJ/m ²	8

Note: The typical physical properties are not intended for use as sales specifications.

Part 3 Recommended Processing Conditions

Parameters	Settings
Drying recommendations	60-80°C in a hot air dryer for 2-4hours
Extrusion Temperature	200-230°C

Disclaimer:

The values provided in this data sheet are for reference and comparison purposes only. They should not be used for design specifications or quality control. Actual values may vary depending on printing conditions. The ultimate performance of printed parts depends not only on the material but also on the part design, environmental conditions, and printing conditions. The product specifications are subject to change without notice.

Each user is responsible for determining the safety, legality, technical suitability, and disposal/recycling of the intended use. Unless otherwise stated, POLYFUL makes no warranties of any kind, express or implied, regarding the suitability of its materials for any use or application. POLYFUL shall not be liable for any damages, injuries, or losses caused by the use of POLYFUL materials in any application.