

PETG-Matte

Technical Data Sheet

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PETG-Matte filament is an entry-level matte product with high cost performance, excellent printing performance, a wide range of colors and matte texture of the printed model.

Basic Information		
	Good toughness	Smooth printed surface
Characteristics	 Strong impact resistance 	Esay to print
	 High speed printing 	Hard to break
Applications	 Prototyping 	• Decoration
	 Cosplay 	Other mechanical parts
Forming Method	• Filament	
Processing Method	3D Printing	

Physical Properties	Testing Method	Data
Density	GB/T 1033	1.35 g/cm3
Melt Flow Index	GB/T 3682	17 (250°C/2.16kg)

Thermal Properties	Testing Method	Data
Heat Distortion Temperature	GB/T 1634	71.1 °C (0.45Mpa)
Glass Transition Temperature		N/A
Continuous Service Temperature	IEC 60216	N/A
Maximum (short term) Use Temperature	•	N/A

Electrical Properties	Testing Method	Data
Insulation Resistance	DIN IEC 60167	N/A
Surface Resistance	DIN IEC 60093	N/A

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Mechanical Properties	Testing Method	Data	
Tensile Strength (X-Y)	GB/T 1040	49.79 Mpa	
Tensile Strength (Z)	GB/T 1040	19.51 MPa	
Elongation at Break (X-Y)	GB/T 1040	13.49 %	
Elongation at Break (Z)	GB/T 1040	2.71 %	
Flexural Strength (X-Y)	GB/T 9341	77.1 MPa	
Flexural Strength (Z)	GB/T 9341	30.1 Mpa	
Flexural Modulus (X-Y)	GB/T 9341	2405.17 MPa	
Flexural Modulus (Z)	GB/T 9341	1757.03 Mpa	
IZOD Impact Strength (X-Y)	GB/T 1843	2.2 KJ/m²	
IZOD Impact Strength (Z)	GB/T 1843	2.29 KJ/m²	

Chemical Properties	Data	
Acid and Alkali Resistance	/	
Grease Resistance	/	
UV Resistance	/	
Water Repellency	/	

Recommended Printing Parameters	Data
Drying Preparation	60℃
Nozzle Size	0.2,0.4,0.6,0.8mm
Nozzle Temperature	240-260℃
Build Platform Type	PEI
Build Platform Temperature	70°C
Fan Speed	50-100%
Printing Speed	40-250mm/s



Printing Tips

When slicing, it is best to turn on the Z seam alignment and starting point alignment functions, turn off the Z-axis lift and exit, avoid passing through the shell when idling, optimize the slicing printing path, and appropriately reduce the printing speed to achieve the best printing effect.

Test Conditions of Mechanical Properties







Tensile testing specimen GB/T 1040

Flexural testing specimen GB/T 9341

Impact testing specimen GB/T 1843

The performance of the filament is evaluated based on standard samples printed by eSUN, while the actual printing performance is influenced by various factors such as printer type, printing parameters, and print environment.

Printing Test Conditions:

Extruder Temperature	250°C
Build Platform Temperature	70°C
Outer Layer Number	2
Top/Bottom Layer Number	3
Infill Density	100%
Fan Speed	100%

^{*}Based on Bambu P1S 0.4 mm nozzle and Orcaslicer 2.1.0 Beta.

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