ANYCUBIC
3D PRINTER FILAMENT
Version: 3.0

Product Name:

Anycubic PETG

Anycubic PETG is a high-toughness basic filament known for its vibrant colors, durability (impact-resistant), water/weather resistance, and chemical stability. Its cost-effectiveness makes it widely adopted in various applications.

Physical Properties

Property	Testing Method	Unit	Typical Value
Density/（g/cm³）	ISO 1183,at 23°C	g/cm³	1.23
Melt Index/ (g/10min)	ISO 1133	g/10min	26.3±2.35
Moisture Content	ISO 787-2	%	0.27

Mechanical Properties

Property	Testing Method	Unit	Typical Value
Tensile Strength / MPa (X-Y)	ISO 527	MPa	52±1
Tensile Strength / MPa (Z)			31±3
Young's Modulus / MPa (X-Y)	ISO 527	MPa	1850±100
Young's Modulus / MPa (Z)			/
Elongation at Break / % (X-Y)	ISO 527	%	13±1
Elongation at Break / % (Z)			/
Bending Strength / MPa (X-Y)	ISO 178	MPa	80±2
Bending Strength / MPa (Z)			/
Bending Modulus / MPa (X-Y)	ISO 178	MPa	2000±50
Bending Modulus / MPa (Z)			/
Izod Impact Strength (kJ/m²) (X-Y)	ISO 179	kJ/m²	45±2
Izod Impact Strength (kJ/m²) (Z)			/

*All data are based on printed test samples. '(X-Y)' and '(Z)' indicate different testing orientations (refer to the direction schematic).

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Thermal Performance

Property	Testing Method	Unit	Typical Value
Glass Transition Temperature	ISO 11357-1, 10℃/min	℃	74.1
Melting Temperature	ISO 11357-1, 10℃/min	℃	/
Crystallization Temperature	ISO 11357-1, 10℃/min	℃	/
Vicat Softening Temperature (VST)	ISO 306, 10N	℃	72
Heat Deflection Temperature (HDT)	ISO 75-2, 1.8 MPa	℃	/
Heat Deflection Temperature (HDT)	ISO 75-2, 0.45MPa	℃	69

Recommended Printing Parameters

*Based on a 0.4mm nozzle, printing conditions may vary with different nozzle diameters

Parameter	Recommended Value
Nozzle Temperature	230-250
Bed Temperature	60-70
Dry Environment	55-65℃，6-8h
Printing Speed	50-250
Extrusion Multiplier	0.96
Max Volumetric Flow Rate	12
Fan Speed	90%
Cooling Time	12
Minimum printing Speed	20
Raft Separation Distance	0.8
Retraction Speed	30

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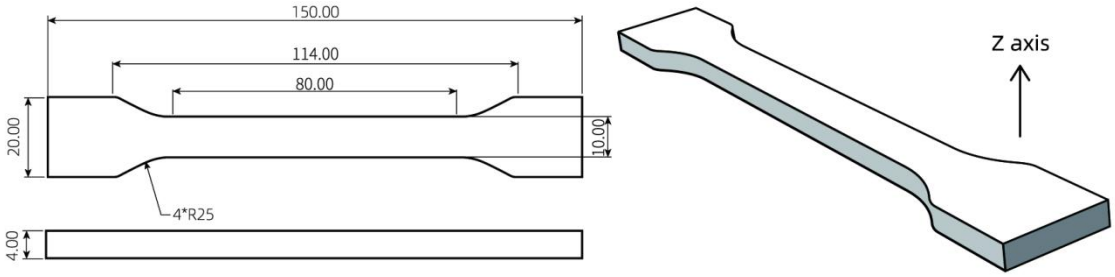
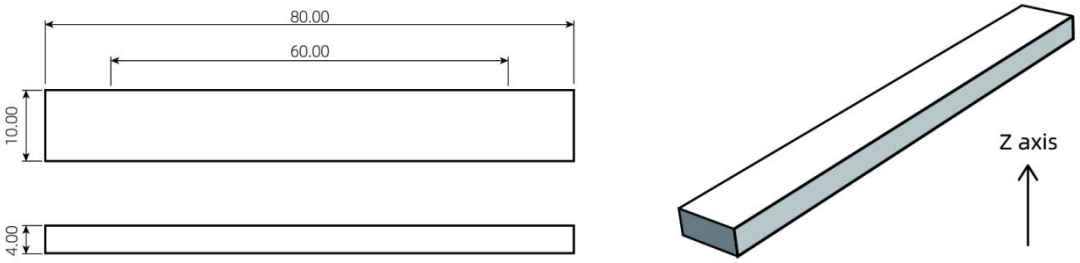
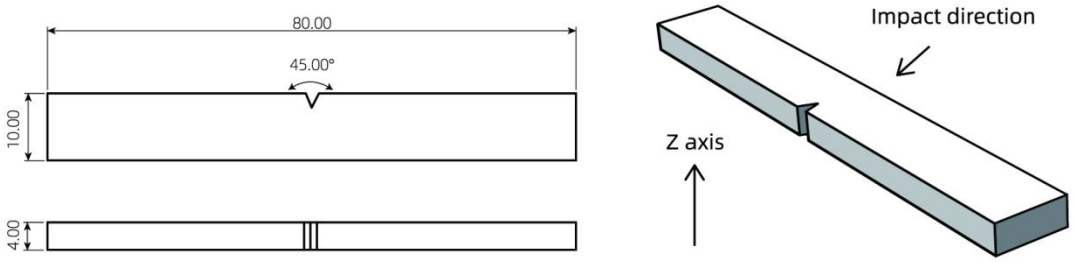
TENSILE TESTING SPECIMEN



IMPACT TESTING SPECIMEN



IMPACT TESTING SPECIMEN



Disclaimer：

The values shown in this chart are for comparison purposes only and are not appropriate for design specifications or quality assurance. Variations may arise due to printing conditions. The end-use performance of printed parts depends on materials, design, environmental conditions, and printing conditions. Please note that product specifications are subject to change without notice.

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