ANYCUBIC
3D PRINTER FILAMENT
Version: 3.0

Product Name:

Anycubic PLA Metal

Anycubic PLA Metal is a metal-like aesthetic filament that offers realistic metal surface luster. With a refined formula that enhances toughness and printing performance, it is ideal for printing machine-, armor-, and metallic-style models.

Physical Properties

Property	Testing Method	Unit	Typical Value
Density/（g/cm³）	ISO 1183,at 23°C	g/cm³	1.2
Melt Index/ (g/10min)	ISO 1133	g/10min	21.6±0.65
Moisture Content	ISO 787-2	%	0.26

Mechanical Properties

Property	Testing Method	Unit	Typical Value
Tensile Strength / MPa (X-Y)	ISO 527	MPa	34±4
Tensile Strength / MPa (Z)			25±2
Young's Modulus / MPa (X-Y)	ISO 527	MPa	1900±100
Young's Modulus / MPa (Z)			/
Elongation at Break / % (X-Y)	ISO 527	%	11±1
Elongation at Break / % (Z)			/
Bending Strength / MPa (X-Y)	ISO 178	MPa	61±3
Bending Strength / MPa (Z)			/
Bending Modulus / MPa (X-Y)	ISO 178	MPa	2100±100
Bending Modulus / MPa (Z)			/
Izod Impact Strength (kJ/m²) (X-Y)	ISO 179	kJ/m²	52±3
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	℃	63.5
Melting Temperature	ISO 11357-1, 10℃/min	℃	160
Crystallization Temperature	ISO 11357-1, 10℃/min	℃	116
Vicat Softening Temperature (VST)	ISO 306, 10N	℃	62
Heat Deflection Temperature (HDT)	ISO 75-2, 1.8 MPa	℃	/
Heat Deflection Temperature (HDT)	ISO 75-2, 0.45MPa	℃	58

Recommended Printing Parameters

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

Parameter	Recommended Value
Nozzle Temperature	200-230
Bed Temperature	50-60
Dry Environment	55-65℃，6-8h
Printing Speed	40-250
Extrusion Multiplier	0.96
Max Volumetric Flow Rate	7.2
Fan Speed	100
Cooling Time	10
Minimum printing Speed	20
Raft Separation Distance	0.5
Retraction Speed	30

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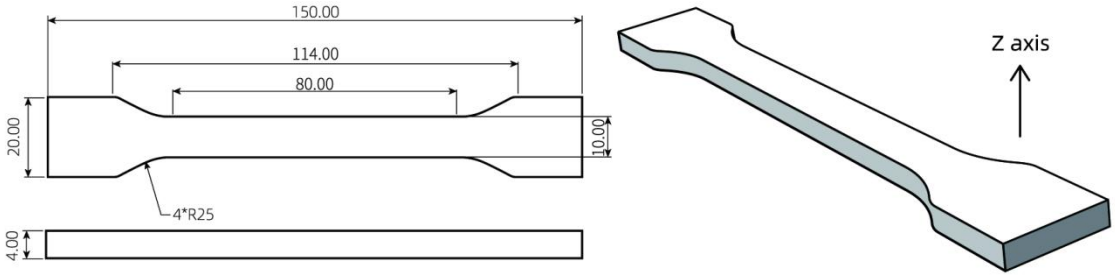
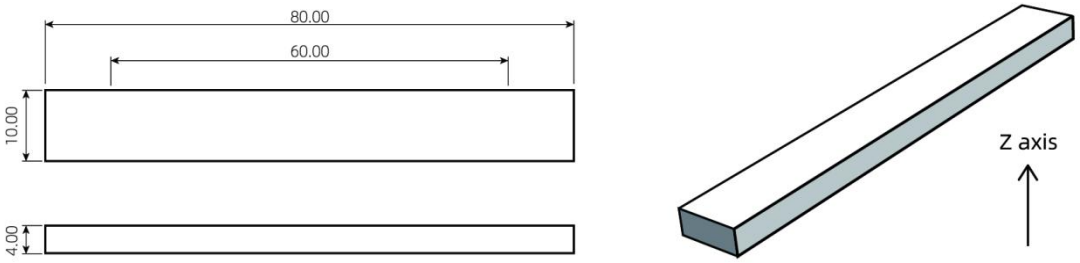
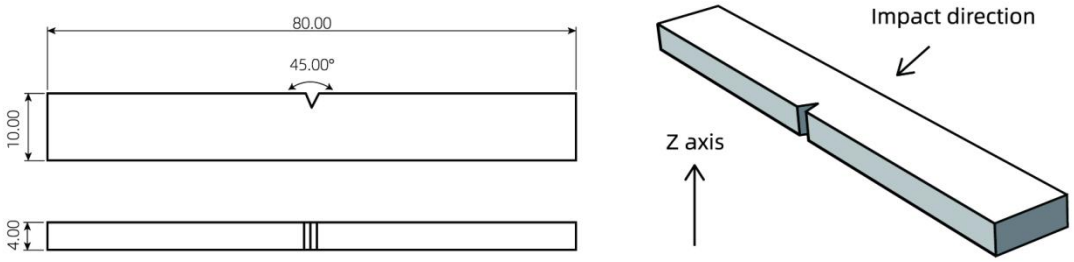
TENSILE TESTING SPECIMEN



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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