ANYCUBIC
3D PRINTER FILAMENT
Version: 3.0

Product Name:

Anycubic ASA

Anycubic ASA is a weather- and temperature-resistant filament, featuring high-impact resistance as well as rain and UV resistance, making it suitable for outdoor environments.

Physical Properties

Property	Testing Method	Unit	Typical Value
Density/（g/cm³）	ISO 1183,at 23°C	g/cm³	1.07
Melt Index/ (g/10min)	ISO 1133	g/10min	18.6±1.57
Moisture Content	ISO 787-2	%	0.27

Mechanical Properties

Property	Testing Method	Unit	Typical Value
Tensile Strength / MPa (X-Y)	ISO 527	MPa	41
Tensile Strength / MPa (Z)			24
Young's Modulus / MPa (X-Y)	ISO 527	MPa	2220
Young's Modulus / MPa (Z)			/
Elongation at Break / % (X-Y)	ISO 527	%	15
Elongation at Break / % (Z)			/
Bending Strength / MPa (X-Y)	ISO 178	MPa	62
Bending Strength / MPa (Z)			/
Bending Modulus / MPa (X-Y)	ISO 178	MPa	1845
Bending Modulus / MPa (Z)			/
Izod Impact Strength (kJ/m²) (X-Y)	ISO 179	kJ/m²	36
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	℃	103
Melting Temperature	ISO 11357-1, 10℃/min	℃	/
Crystallization Temperature	ISO 11357-1, 10℃/min	℃	/
Vicat Softening Temperature (VST)	ISO 306, 10N	℃	95
Heat Deflection Temperature (HDT)	ISO 75-2, 1.8 MPa	℃	/
Heat Deflection Temperature (HDT)	ISO 75-2, 0.45MPa	℃	90

Recommended Printing Parameters

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

Parameter	Recommended Value
Nozzle Temperature	255-275
Bed Temperature	80-100
Dry Environment	70-80℃，8-12h
Printing Speed	50-100
Extrusion Multiplier	0.96
Max Volumetric Flow Rate	12
Fan Speed	80%
Cooling Time	3
Minimum printing Speed	20
Raft Separation Distance	0.8
Retraction Speed	40

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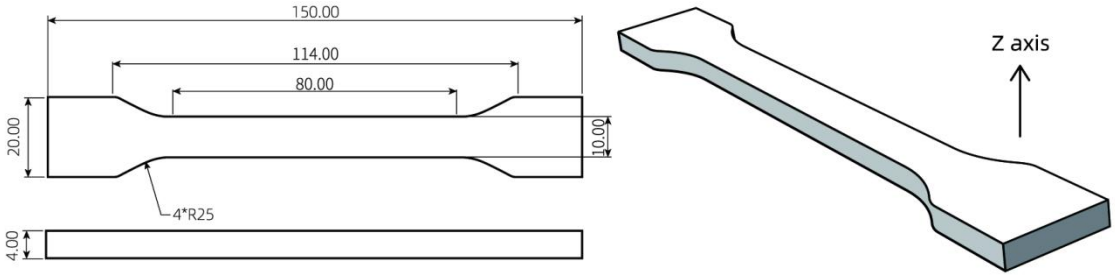
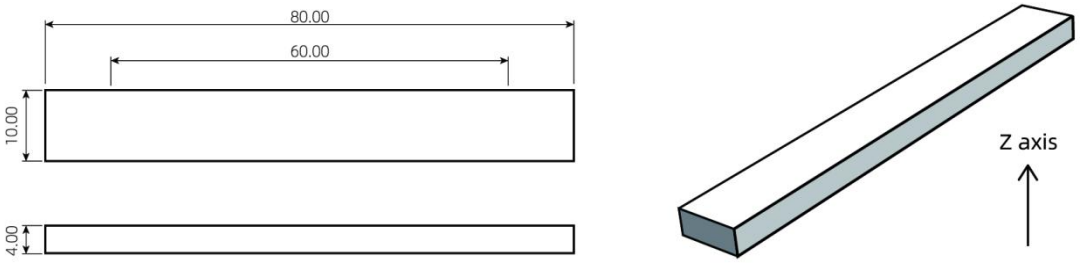
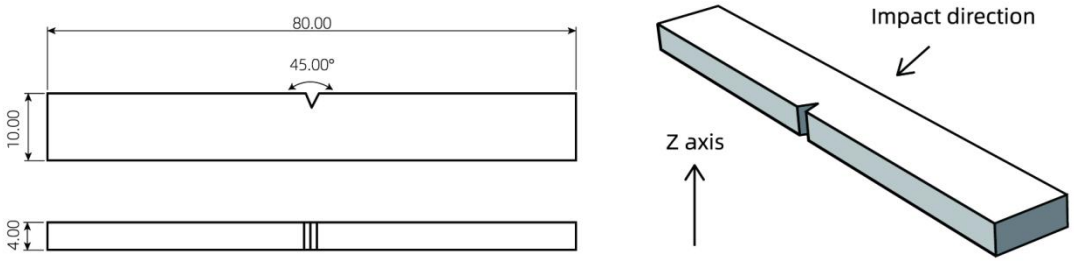
TENSILE TESTING SPECIMEN



FLEXURAL 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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