



YOUSU i-Strong injection alloy filament Alloy materials

Material features: no warping, easy to print, high impact strength, drop resistance

Alloy material is a functional material that is easy to print and will not warp or crack. It is very suitable for printing large models. Due to its high impact resistance, it is also very suitable for printing some functional parts.

Note: The above test strips were all printed using a Bambu X1 printer, with 100% filling and an unsealed printer. The printing parameters were the same as the printing recommendations.

Physical Properties				
Density	ASTM D792	g/cm ³	23℃	1.05~1.1
Melt Flow Rate	ASTM D1238	g/10min	220℃, 10Kg	17~23
Water absorption	ASTM D750	%	/	<0.7
Mechanical Properties				
Tensile Strength (X-Y)	ASTM D638	MPa	5mm/min	35~42
Elongation (X-Y)	ASTM D638	%	5mm/min	15~21
Flexural Strength (X-Y)	ASTMD79	MPa	2mm/min	45~53
Impact Strength,IZOD notched (X-Y)	ASTM D256	KJ/m ³	4mm,23℃	18.3~24.5
Thermal Properties				
Heat Distortion Temp	ASTMD648	℃	0.45MPa	65~67

Basic Parameters	
Product Code	YOUSU i-Strong injection alloy filament
Material	Alloy materials
Diameter	1.75 mm
Printing Temp	240℃-250℃
Print Bed Temp	70℃~80℃
Cooling fan	60%~100%
Printing speed	<300mm/s

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