

Hyper-PLA+ Filament Technical Data Sheet

Version 1.0

1. Product introduction

Hyper PLA filament is a 3D printing filament developed based on PLA. It has good fluidity and fast curing characteristics. It is compatible with high and low speed printing, supports printing speeds up to 600mm/s, and has high mechanical properties and tensile strength. Compared with ordinary ABS filaments, Hyper PLA has a low shrinkage rate, no edge warping during printing, and printing is successful.

2. Physical Performance Parameters

Items	Testing Criteria	Parameters	
Demoite	ASTM D792 (ISO 1183, GB/T	1.24 ±0.1 (g/cm3 at 21.5°C)	
Density	1033)		
Glass transition temperature	s transition temperature DSC, 10 °C/min		
Visat Softaning temperature	ASTM D1525 (ISO 306 GB/T	62.3 ±0.5(°C)	
Vicat Softening temperature	1633)		
Melt index	elt index 190°C, 2.16 kg		

3. Mechanical Performance Parameters

Items	Testing Criteria	Parameters	
Tensile strength (X-Y)	ISO 527, GB/T 1040	52.99 (MPa)	
Tensile modulus (X-Y)	ISO 527, GB/T 1040	1146.06 (Mpa)	
Elongation at break (X-Y)	ISO 527, GB/T 1040	6.3(%)	
Bending strength (X-Y)	ISO 178, GB/T 9341	92.38(MPa)	
Bending modulus (X-Y)	ISO 179, GB/T 1043	T 1043 2490.17(MPa)	
Charpy impact strength (Z)	ISO 179, GB/T 1043	8.83(kJ/m²)	

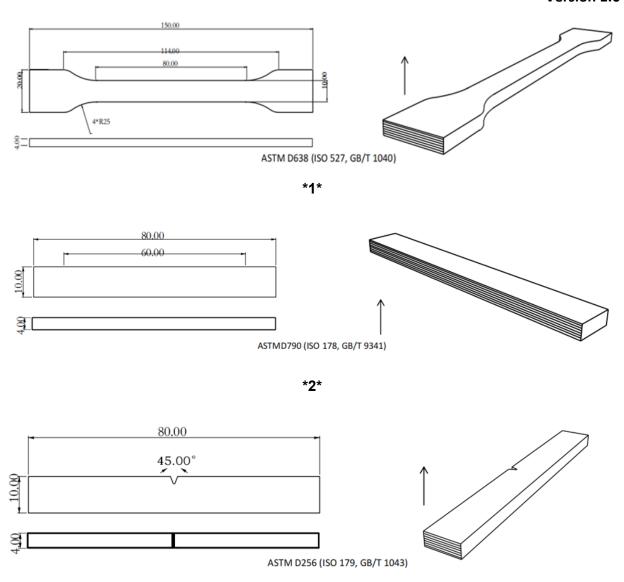
Printing parameters and styles of printing conditions:

Print Conditions	Parameters
Nozzle Temperature	220℃
Hot Bed Temperature	60℃
Printing Speed	250mm/s
Infill	100%



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4. Recommended printing conditions

Print	Hotbed	Ambient	Print Speed	Pumping
Temperature	Temperature	Temperature		Distance
190-230 ℃	25-60 ℃	0-50℃	40-600mm/s	1-5mm

5. Compatible Models

Ender-PLA+ wildly used in FDM 3D printers on the market.

6. Storage Condition

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Please place this product in a dry and ventilated environment, not in an environment of high temperature, sunny or humid conditions. If it is not used up within a short time after opening, it is recommended to use it with a dry box when using it again.

7. Disclaimer

The values given in this data sheet are for reference and comparison only. Actual values may vary with printing conditions, and the end-use performance of printed models depends on model design, environmental conditions, printing conditions, etc.