

Hyper PETG Filament Technical Data Sheet

Version 1.0

1. Product introduction

Hyper PETG's formulation has undergone specialized optimization to enhance fluidity, enabling print speeds of up to 300mm/s. It possesses outstanding impact resistance, high transparency, excellent toughness, and superior chemical resistance, making it suitable for outdoor model production and models requiring transparent visual effects. It effectively withstands chemical corrosion and performs exceptionally well in various storage environments.

2. Physical Performance Parameters

Items	Testing Criteria	Parameters
Density	ASTM D792 (ISO 1183, GB/T 1033)	1.27 (g/cm ³ at 21.5°C)
Vicat Softening temperature	ASTM D1525 (ISO 306 GB/T 1633)	83 (°C)
Melt index	190°C, 2.16kg	12 (g/10 min)

3. Mechanical Performance Parameters

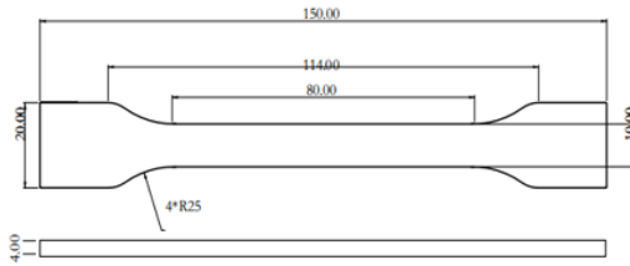
Items	Testing Criteria	Parameters
Distortion temperature	ASTM D648 (ISO 75-2, GB/T 1634.1)	74.5 (°C)
Tensile strength (X-Y)	ASTM D638 (ISO 527, GB/T 1040)	48 (MPa)
Elongation at break (X-Y)	ASTM D638 (ISO 527, GB/T 1040)	10 (%)
Emodulus (X-Y)	ASTM D638 (ISO 527, GB/T 1040)	3500 (MPa)
Flexural modulus	ASTMD790 (ISO 178, GB/T 9341)	2200 (MPa)
Impact strength	ASTM D256 (ISO 179, GB/T 1043)	55 (MPa)
Notch impact strength	ASTM D256 (ISO 179, GB/T 1043)	6 (kJ/m ²)

Printing parameters and styles of printing conditions:

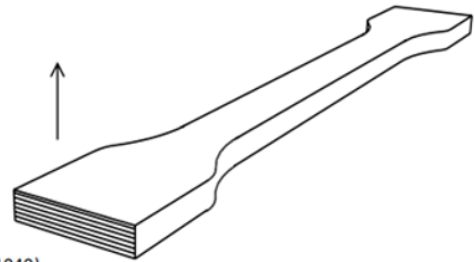
Print Conditions	Parameters
Nozzle Temperature	220-260 °C
Hot Bed Temperature	70-80 °C
Printing Speed	40-300mm/s
Infill	100%

Hyper PETG Filament Technical Data Sheet

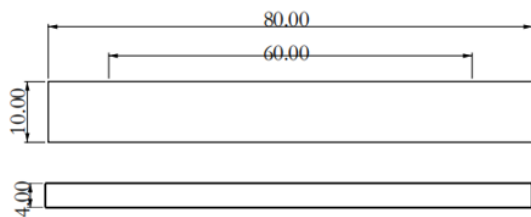
Version 1.0



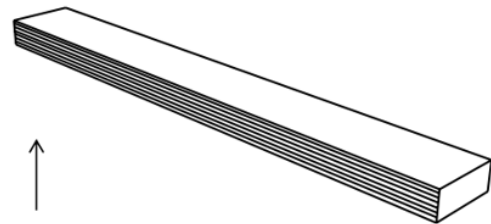
ASTM D638 (ISO 527, GB/T 1040)



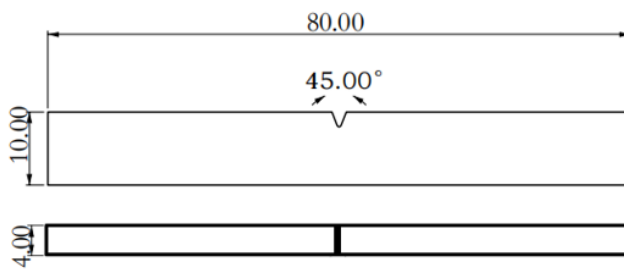
1



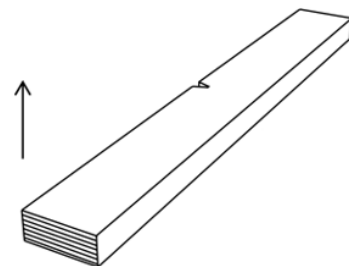
ASTM D790 (ISO 178, GB/T 9341)



2



ASTM D256 (ISO 179, GB/T 1043)



3

4. Recommended printing conditions

Print Temperature	Hot bed Temperature	Ambient Temperature	Print Speed	Cooling fan
220-260°C	70-80°C	0-50°C	40-300mm/s	0-50%

5. Compatible Models

Hyper PETG is widely used in FDM 3D printers on the market.

6. Storage Condition

Please place this product in a dry and ventilated environment, avoiding high temperatures, direct sunlight, or humid conditions. If it is not used up shortly after opening, it is recommended to store it with a drying box for future use.

Hyper PETG Filament Technical Data Sheet

Version 1.0

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.