

DATASHEET OF PLA FILAMENT

This product uses polylactic acid as the main raw material, and it is a consumable designed and produced by our company specifically for FDM 3D printers.

Description

Material conditions	commercial uses		
Supply area	America	Europe	Asian-Pacific region
Features	Biomaterials, corn grains are refined, degradable, environmentally friendly, hard materials, high strength and rigidity, bright surface, good smoothness, no curling or warping when printing		
Appearance	Diameter 1.75mm, 1.0Kg/roll, 335m per roll		
Color	Common 20 colors in stock		
Instructions for use	Temperature of nozzle is 190℃~230℃, no need to heat the bed		

Physical properties	Value	Testing method
Density	1.25±0.05g/cm ³	ASTM D792
Melt flow rate (190℃, 2.16Kg)	3~6g/10min	ASTM D1238
Moisture Absorption (saturation, 23℃)	0.01%	ASTM D570

Mechanical properties	Value	Testing method
Tensile strength	≥65MPa	ASTM D638
Bending strength	≥92PL/BH ²	GB/T9341-2000
Notch impact strength (IZOD,23℃)	≥3.6KJ/m ²	ISO 180
Ultimate elongation	≥5.0%	ASTM D638
Distortion temperature	≥50℃	ASTM D648

Precision	Value	Testing method
Diameter (1.75mm)	1.75±0.03mm	Q/JHT 001-2014
Roundness deviation	≤0.03mm	Q/JHT 001-2014