



FILATECH
Making It Better

WOOD PLA Filament

WOOD-PLA FILAMENT

PLA (Polylactic Acid) is one of the two most commonly used desktop 3D printing filaments (with the other being ABS filament). It is the "default" recommended material for many desktop 3D printers, and with good reason - Wood PLA is a composite of wood fibers in Polylactic Acid Polymer. Wood PLA is useful in a broad range of printing applications when you need wood looking finishing on your projects, it has the virtue of being both odorless and low-warp and does not require a heated bed. Wood PLA filament is also one of the eco-friendliest 3D printer materials available; it is made from annually renewable resources (corn-starch) and natural wood fibers and requires less energy to process compared to traditional (petroleum-based) plastics. Our Wood PLA filaments for 3D Printing are available in some light to darker shades of wood color in both 1.75mm and 2.86mm.

The latest range of Wood PLA filaments have been developed by our expert engineers utilizing the latest technology and high quality prime virgin raw material.

OPTIONS:

Size:	1.75	mm +/- 0.03 mm
	2.85	mm +/- 0.03 mm
Color:	Natural Wood, Mahogany, Dark Ash	
Packaging:	0.5	Kg Spools
	1.0	Kg Spools
	6.0	Kg Spools

FEATURES:

- Lower melting point for easier printing
- Free from harmful or hazardous materials
- Lower shrinkage rate and higher rigidity improved by wood fibers
- High rigidity with minimal flex
- Produces higher quality prints
- Proper for printing large parts with almost no warping
- Can be printed without heated bed.
- No chemical odors produced during printing
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SPECIFICATIONS:

Filament Material:	WOOD-PLA Composite	
Specific Gravity:	1.05	gr/cm ³
Size:	1.75	mm +/- 0.03 mm
	2.85	mm +/- 0.03 mm
Printing Information:	Extruder: 190 – 220 °C	
	Bed:	40 – 60 °C (Only for big parts)
Working Temperature:	Starts losing mechanical strength at 60 °C	

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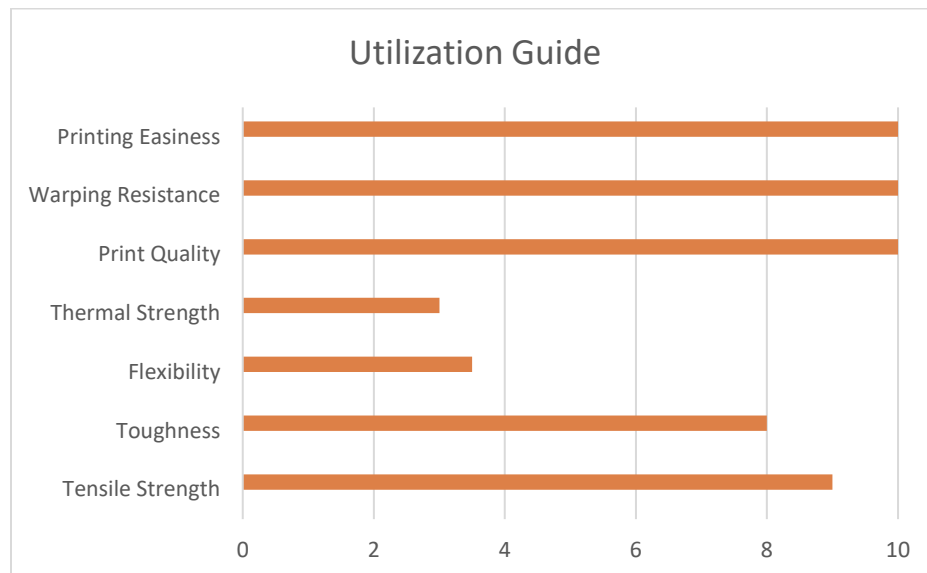
ENGINEERING PROPERTIES:

Properties	ASTM	Test Condition	S.I. Units	Typical Value
Mechanical Property				
Tensile Strength	D638	50mm/min	MPa	35
Elongation	D638	50mm/min	%	6
Flexural Strength	D790	2mm/min	MPa	60
Flexural Modulus	D790	2mm/min	MPa	3000
Impact Strength, IZOD	D256	4mm, 23°C	KJ/m2	4
Thermal Properties				
Heat Distortion Temp.	D648	1.82MPa,6.4mm	°C	60
Other Properties				
Melt Flow Index	D1238	190°C, 2.16Kg	g/10min	4.5
Specific Gravity	D792	23°C	g/cm3	1.05
Mold Shrinkage	D955	23°C	%	0.4-0.6

UTILIZATION GUIDE:

(Comparative, Out of 10)

Tensile Strength	9
Toughness	8
Flexibility	3.5
Thermal Strength	3
Print Quality	10
Warping Resistance	10
Printing Easiness	10



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CERTIFICATES:

Management:	BS EN ISO 9001:2015
Quality:	CE (CE-2924)
Environment:	RoHS (UQ-5724)