Product datasheet

ENGLISH

WOOD

WOOD is a modified PLA based type of filament, that smells and feels like wood. The filament is a bit brittle, but tough enough to be supplied in reels of 300 gram to 1kg. It prints easy, but we advise a slightly bigger nozzle to avoid blocking. Due to a low shrinkage factor WOOD will not deform after cooling. Poly Lactic Acid is a biodegradable plastic made from renewable natural resources and one of the most popular materials for 3D printing.

Dimensions

Size	Ø tolerance	Roundness
1,75mm	± 0,05mm	≥ 95%
2,85mm	± 0,10mm	≥ 95%

Physical properties

Description	Testmethod	Typical value
Specific gravity	ASTM D1505	1,20 g/cc
MFI	-	4.5 g/10 min
Tensile strength	ASTM D882	70 MPa (MD) 100 MPa (TD)
Elongation at break	ASTM D882	170% (MD) 110% (TD)
Tensile modulus	ASTM D882	1900 MPa (MD) 2300 MPa (TD)
Impact Strength		7.0 KJ/m²

Thermal properties

Description	Testmethod	Typical value
printing temp.	-	205-235˚C
melting temp.	-	150˚C ± 10˚C
Melting point.	ASTM D3418	140-150˚C
vicat softening temp.	ISO 306	± 45˚C

Features:

- **Feels and smells like WOOD**
- **Easy to print at low temperature**
- **Very low warping**
- **Biodegradable**
- **Preferably printed with > 0,4mm nozzle**

Colours:
WOOD is available from stock in dark brown tropical wood colour

Additional info: Due to its low tendency to warp WOOD can also be printed without a heated bed. If you have a heated bed the recommended temperature is ± 35-60˚C. **We advise a nozzle > 0,4mm**
WOOD can be used on all common desktop FDM or FFF technology 3D printers.
Storage: Cool and dry (15-25˚C) and away from UV light. This enhances the shelf life significantly