



WOOD@df

WOOD @df 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 @df 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.

Features:

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

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	-	4,5,0 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/m ²

Colours:

WOOD @df is available from stock in dark brown tropical wood Colour.

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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

Packaging:

WOOD @df is available in nearly any type of packaging and labelling. Ask our team to help you customizing your product.

Additional info:

Due to its low tendency to warp WOOD @df 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 @df 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..