

# WOOD

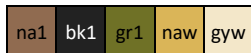
WOOD is a modified PLA based type of filament, that smells and feels like wood. The different wood-types enable us to manufacture this wide range of natural wood colours. The filament is tough enough for supplies on reels up to 2,3kg and prints very easy. We recommend a nozzle size 0,5mm or larger. We believe that this makes WOOD one (if not the) best performing wood filaments on the market.

## Material features:

- Feels and smells like WOOD
- Easy to print at low temperature
- Very low warping
- Biodegradable
- Easily printable with  $\geq 0,5$  mm nozzle

## Colours:

WOOD is available from stock in 5 different colours.



## Packaging:

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

## Filament specs.

Size	Ø tolerance	Roundness
1,75mm	$\pm 0,05$ mm	$\geq 95\%$
2,85mm	$\pm 0,10$ mm	$\geq 95\%$

## Material properties

Description	Testmethod	Typical value
Specific gravity	ISO 1183	1,28 g/cc
MFI 210°C/2,16kg	ISO 1133	3,5 g/10 min
Tensile strength at yield	ISO 527	36,9 MPa
Tensile strength at break	ISO 527	36,8 MPa
Elongation strain at break	ISO 527	2%
Elongation strain at yield	ISO 527	2%
Tensile (E) modulus	ISO 527	3200 MPa
Impact strength – Charpy method 23°C	ISO 179 1eA	4 kJ/m2
Printing temp.	Internal method	200 $\pm$ 10°C*
Melting temp.	ASTM D3418	145 $\pm$ 5°C
Vicat softening temp.	ISO 306	45°C

## 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  $\leq 60^\circ\text{C}$ . We advise a nozzle  $\geq 0,5$ mm. WOOD can be used on all common desktop FDM or FFF technology 3D printers.

\*na1, bk1 and gr1 can be printed up to temperatures  $\sim 205^\circ\text{C}$  maximum @35-45mms, naw and gyw can be printed at higher temperatures up to  $\sim 215^\circ\text{C}$  maximum @35-45mms. For more details, contact us.

Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.

\*The values presented in this publication are based on MCPP's knowledge and experience and are intended for reference purposes only. While MCPP has made every reasonable effort to ensure the accuracy of the information in this publication, MCPP does not guarantee that it is error-free, nor does MCPP make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. MCPP reserves the right to make any adjustments to the information contained herein at any time without notice. MCPP expressly disclaims warranties of any kind regarding the information contained herein, including, but not limited to, any warranties of merchantability or fitness of a particular purpose, use or application. MCPP shall not be liable for any damage, injury or loss induced from the use of MCPP's products in any application. Each user should thoroughly review this publication before selecting a product and, in view of the many factors that may affect processing and application of the product, each user should carry out their own investigations and tests and determining the safety, lawfulness, technical suitability, proprietary rights, and disposal/ recycling practices of the materials for the intended application.