

**PRODUCT NAME:** 3D FILAMENT BioWOOD 1,75mm

**PRODUCT DESCRIPTION:** BioWOOD filament – a thermoplastic polymer in the form of a thread, designed for 3D printing using the FFF/FDM method. Filament coiled on spools, vacuum-packed with desiccant in a PET/PE bag, and then in a box.

**STORAGE:** Store in dry area. Store in a closed container.

## PRODUCT PARAMETERS

Parameter	Value
Filament diameter [mm]	1,75
Diameter tolerance [mm]	+/- 0,05
Oval tolerance [mm]	+/- 0,02
Net weight [g]	500
Weight with packaging [g]	800
Spool weight [g]	245
Small spool dimensions [mm] ( $\varnothing$ / height / hole $\varnothing$ )	200/55/52
Box dimensions [mm]	218/209/62

## RECOMMENDED PRINTING PARAMETERS

Parameter	Value
Print temperature [°C]	170-210
Bed temperature [°C]	30-50

## PHYSICAL PARAMETERS OF THE MATERIAL

Parameter	Value	Unit	Test method
Density	1,26	g/cm <sup>3</sup>	-
VICAT	50	°C	-
Tensile modulus	3195	MPa	ISO 527 (1 mm/min)
Tensile strength	34	MPa	ISO 527 (5 mm/min)

Elongation at break	3	%	ISO 527 (5 mm/min)
Charpy impact strength	15	kJ/m <sup>2</sup>	ISO 179/1 eU
Charpy impact strength (notched)	3	kJ/m <sup>2</sup>	ISO 179/1 eA
Food Contact Approval	YES	-	-

The values above have been measured using standard test specimens made of non-colored material at room temperature. The figures should be considered as indicative values only. Actual properties of BioWOOD parts can be affected by the printing parameters, design of the model, ambient conditions, application of the printout etc. It is essential that users test our products to determine whether they are suitable for their intended use. ROSA PLAST Sp. z o.o. accepts no liability for any health detriment or material losses or any other losses related to the use of the material.



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