

## WOOD

Smartfil WOOD is a PLA filament with a high load of wood fibers, available in various colors, the high percentage of wood incorporated into the filament allows the manufacture of pieces with a colorful finish and matte textures in wood.

Suitable for decoration pieces, prototyping, design, and pieces where they require a touch and aesthetics similar to wood.



Allow for all printers



Biodegradable



Compostable



	VALUES	UNIT OF MEASUREMENT	STANDARD
<b>PHYSICAL PROPERTIES</b>			
Chemical composition	Composed of PLA with a load of wood.		
Density	1,09	g/cm <sup>3</sup>	ISO 1183
<b>MECHANICAL PROPERTIES <sup>1</sup></b>			
	XY PLANE	XZ PLANE	
Tensile strength	32,4	12,8	MPa
Traction module	2944	1841	MPa
Flexion strength	65,2	23,8	MPa
Flexion module	3304	1737	MPa
Elongation at maximum effort	1,2	0,8	%
Tensile elongation (until breakage)	1,2	0,8	%
Flexion elongation (until breakage)	2,5	3,3	%
Charpy Impact Force (non-notched)	-	-	kJ/m <sup>2</sup>
Hardness	85		Shore D
			ISO 7619 - 1

<sup>(1)</sup> Values obtained on printed specimens, nozzle 0,6 mm, rectilinear infill 100%, layer height 0,2 mm For more information contact us by email at [info@smartmaterials.com](mailto:info@smartmaterials.com) or visit our website [www.smartmaterials3d.com](http://www.smartmaterials3d.com)

<b>PRINTING PROPERTIES</b>			
Printing temperature	200 - 230		°C
Bed temperature	40 - 60		°C
Layer fan	100		%
Print speed	30 - 50		mm/s
Material flow	100		%
Layer height	≥ 0,2		mm
Nozzle recommendations	≥ 0,6		mm

SIZE	PESO NETO	GROSS WEIGHT	DIAMETER	COLOR	PACKAGING
M	750 g	975 g	1,75 mm/2,85 mm	Various colors	Cardboard box, cardboard coil, vacuum bag, desiccant.

NOTICE: The information provided in the data sheets is intended for reference only. It should not be used as design or quality control values. Actual values may differ significantly depending on printing conditions. The final performance of printed components not only depends on materials, design and printing conditions are also important.