

## WOOD Filament Technical Data sheet

### DESCRIPTION

The WOOD filament is a wood loaded modified PLA (Polylactid Acid).

It's a material of **great aesthetic qualities**, that finds use in innumerable applications in the different design areas.

Easily printable, it has a real wood feeling even from the point of view of smell.

Excellent post-printing reworkability.

The WOOD filament is ideal material for use in architecture, objects and gadgets, design, art.

### PRINTING MODES

- Extruder Temperature: 200° C
- Bed Printing Temperature: 30°-50° C
- Suggested printing speed: up to 150 mm/sec

### APPLICATIONS

WOOD is a thermoplastic filament especially suitable 3D Printing Prototyping Technologies FFF (Fused Filament Fabrication).

Following are tests carried out to proof the features and properties of the material:

Property Test Condition	Standard	Unit	Values
<b>Mechanical Properties</b>			
Tensile Strength	ASTM D638	MPa	37
Flexural Strength	ASTM D790	MPa	68
<b>Thermal properties</b>			
Melting point	ASTM D3418	°C	130° - 155°
Degradation temperature		°C	250°
<b>Other Properties</b>			
Density	ASTM D1505	g/cm <sup>3</sup>	1,25

### SUPPLY FORM AND CONSERVATION METHODS

WOOD is supplied as Filament.

External filament diameter is 1,75 mm (Diameter tolerances + 0.05/-0,05 mm; roundness deviation: max 3%).

It has to be kept in its original packaging, in a dry and ventilated place. Avoid direct exposure to sunlight and to heat sources.

Possibly store at temperatures between 10 ° and 35 ° C.

Once opened, it is recommended to keep the filament in the original bag (or in another plastic bag) together with the provided drying sachet.

### Olivetti S.p.A.