Lignum PLA



Essential series

Lignum is a 100% industrial compostable PLA based material with 25% recycled pine wood fibers. This material is easy to print and gives off aromas of wood during printing. The final part feels and smells like wood and can be sanded for a smooth finish. Lignum PLA is available in pine wood colour. Filament should be stored into their original sealed package at room temperature (15–30°C) and dry environment. Following this storage recommendation, the filament will have a minimum shelf life of 12 months.

Please note that there may be colour variation between batches of recycled pine wood fibers as it is a natural product

General

Availability • North America

Latin America

Applications

Functional Parts

Home Décor

Prototyping

Architectural Models

Mechanical Properties	Value	Test Method
Tensile Strength	17 MPa	ASTM D638
Elongation at Break	5%	ASTM D638
Flexural Strength	33 MPa	ASTM D790
Flexural Modulus	1350MPa	ASTM D790
Flexural Modulus	1350MPa	ASTM D790

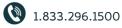
Samples printed with the following parameters: 100% infill; rectilinear; 2 shells. Conditioned under ambient conditions for 24 hours prior to testing.

	Thermal Properties	Value	Test Method	
1	Glass Transition Temperature	55°C	ASTM D3418	
	Melt Flow Rate (210°C)	1.4g/10min	ASTM 1238	
1	Melt Temperature	155-165°C	ASTM D3418	
/	Specify Gravity	0.98	ASTM D792	















Parameter	Recommended Setting
Nozzle Temperature	190-220°C
Bed Temperature	25-60°C
Bed Adhesive	None
Print Speed	45-60mm/s
Cooling	0-100%
Layer Height	≥0.2mm
Nozzle Diameter	≥0.6mm

To ensure optimal material properties the material should always be kept dry. Drying recommendations: 60°C /140°F in a hot air dryer or vacuum oven for 4 to 16 hours.

Disclaimer

The data presented in this document are based on our current knowledge and experience and is intended solely for information and comparison purposes only. Product specifications are subject to change without notice. They should not be used for project specifications or its quality evaluation. The material's actual properties depend on the printing process conditions, the design structure, test conditions, etc.

In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any quarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

Each user is responsible for complying with product safety standards, its intended use, as well as the law and waste disposal (and recycling) rules for electrical and electronic equipment. Fortis3D does not make any express or implied warranties, including but not limited to implied warranties of merchantability or fitness for a particular purpose.









1.833.296.1500



info@fortis3D.com







