Wood PLA

STANDARD PLASTICS FOR FDM 3D PRINTING

MATERIAL NAME
Wood PLA

COLOR
Wood

PROCESS
FDM

PRODUCT DESCRIPTION

PLA Wood is a PLA decorative material added with wood powder or wood fiber. It can print colors and textures close to wood and is suitable for art pieces, display models, architectural models and low-load decorative appearance pieces.

TYPICAL APPLICATIONS

- Low-cost rapid prototyping
- Functional prototype testing
- Appearance display
- Assembly testing

PRODUCT SAFETY

Thermoplastic printed parts should be handled according to normal workshop safety practices. Avoid high heat, open flames, and inhalation of fumes generated during post-processing or overheating.

PRODUCT DELIVERY & WAREHOUSING

- **STORAGE**
  Store parts in a dry, cool, and clean environment away from direct sunlight and high heat. Keep the material sealed before processing.

- **TRANSPORTATION**
  Pack parts securely to prevent warping, scratching, and impact. Protect from moisture and temperature swings during transit.

PROPERTIES OF PRINTED MATERIAL

Properties	Test Method	Value
Density (g/cm3)	ISO 1183	1.17 g/cm3
Water Absorption (%)	ISO 62	1.25%
Hardness	ISO 868	Shore D 77
Tensile strength (MPa)	ISO 527	XY: 26±5 Z: 15±4 MPa
Tensile modulus (MPa)	ISO 527	XY: 2360±190 Z: 1770±150 MPa
Elongation at break	ISO 527	XY: 15.3±3.1 Z: 4.5±1.7%
Flexural strength (MPa)	ISO 178	XY: 55±4 Z: 28±4 MPa
Flexural modulus (MPa)	ISO 178	XY: 2780±120 Z: 1975±140 MPa
Heat deflection temperature @ 0.45 MPa (deg C)	ISO 75	HDT @ 0.45 MPa: 60 deg C
Heat deflection temperature @ 1.8 MPa (deg C)	ISO 75	HDT @ 1.8 MPa: 57 deg C
Impact strength notched	ISO 179	6.3 ± 2.2 KJ/m²; ISO 179 (Charpy)

Tips: Want to explore a wider range of materials? Check out *https://www.unionfab.com/materials*