

Description

The *Premium 3D Printer Filament—WOOD* is made with polylactic acid (PLA) polymer and wood.

Benefits and Features

- **1.75 mm diameter**
- **Low diameter variance**
- **Provides a wood like color and appearance**
- **Good moisture and chemical resistance**

3D-Filament Processing Parameters

<i>Processing Parameters</i>	<i>Recommendations</i>
Working Temperature	185–230 °C [365–446 °F] ^{a)}
Bed Temperature	Not Required
Nozzle Size	≥0.5 mm ^{b)}

a) Values may vary depending on the printer type and environmental conditions. Adjust print temperatures by 5 °C until ideal flow and bed adhesion is obtained.

b) To avoid clogging of the nozzle, prefer larger nozzle sizes.

3D-Filament Properties

<i>Quality Control</i>	<i>Method</i>	<i>Value</i>
Density	ASTM D 1505	1.25 g/cm ³
<i>Physical Properties</i>	<i>Method</i>	<i>Value</i>
Color		Wood ^{a)}
Tensile Strength	ASTM D 882, Machine Direction	37 N/mm ² [5 300 lb/in ²]
% Elongation	"	6%
Young's Modulus	"	3 100 N/mm ² [444 000 lb/in ²]
Optical Transmittance	ASTM D 1003	1.2%

a) Higher printing temperatures produce darker wood colors.

<i>Thermal Properties</i>	<i>Method</i>	<i>Value</i>
Melting Point	ASTM D 3418	130–210 °C [266–410 °F]

Storage and Shelf Life

Store between 18 to 27 °C [65 to 80 °F] and protect from direct heat or sunlight. Keep sealed in an air tight container, away from humidity.

<i>Shelf Life</i>	<i>Value</i>
Unopened package	1 y from the date of purchase
Opened package	Variable depending on storage conditions

Health and Safety

Please see the *Premium 3D Printer Filament-WOOD Safety Data Sheet* (SDS) for more details on transportation, storage, handling and other security guidelines.

Environmental Impact: This product doesn't have any known environmental toxicity.



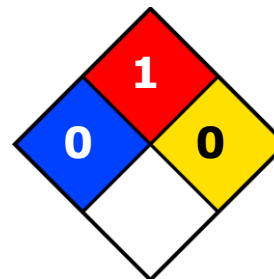
This product meets the European Directive 2011/65/EU Annex II (ROHS); recasting 2002/95/EC.

Health and Safety: This product is not considered to be hazardous for human health under normal use. It is widely used in the packing and food industry.

HMIS® RATING

HEALTH:	0
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

Packaging and Supporting Products

Cat. No.	Color	Diameter	Spool Weight	Filament Length	Spool Dimensions		
					Inner diameter	Outer diameter	Width
WOOD17W5	Wood	1.75 mm	0.50 kg	170 m	32 mm	160 mm	57 mm
WOOD17W1	Wood	1.75 mm	1.0 kg	330 m	57 mm	180 mm	92 mm
WOOD30W1	Wood	2.85 mm	1.0 kg	120 m	57 mm	180 mm	92 mm
WOOD17D1	Dark wood	1.75 mm	1.0 kg	330 m	57 mm	180 mm	92 mm

Supporting Products

- 3D Printing Masking Tape, Cat. No. MAS100-15, MAS200-15
- 3D Printing Polyimide Tape, Cat. No. POL100, POL200
- Acetone, Cat. No. 434-1L, 434-4L
- d-Limonene, Pure Grade: Cat. No. 433-1L, 433-4L

Technical Support

Contact us regarding any questions, suggestions for improvements, or problems with this product. Application notes, instructions and FAQs are located at www.mgchemicals.com.

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Warranty

M.G. Chemicals Ltd. warrants this product for 12 months from the date of purchase by the end user. *M.G. Chemicals Ltd.* makes no claims as to shelf life of this product for the warranty. The liability of *M.G. Chemicals Ltd.* whether based on its warranty, contracts, or otherwise, shall in no case include incidental or consequential damage.

Disclaimer

This information is believed to be accurate. It is intended for professional end users who have the skills required to evaluate and use the data properly. *M.G. Chemicals Ltd.* does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

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