



3D Printing Filament

TECHNICAL DATA SHEET - MH Build Series Lightweight PLA

Commercial Name: MatterHackers Build Series Lightweight PLA

Designation: 3D printing filament material

Manufacturer: MatterHackers

Product Description

MH Build Series Lightweight PLA, or PLA-LW, is an affordable PLA filament intended for producing lightweight 3D printed parts

- Unique foaming technology for low-density, lightweight parts
- Easy to print - just like regular PLA
- Excellent for models like RC airplanes or drone parts
- Bulk pricing available - save more with each spool purchased

Storage

MH Build Series Lightweight PLA filament should be stored between 15 - 25°C, in its original packaging, in a clean and dry environment. When following these recommended storage procedures the minimum shelf life will exceed 12 months.

Material Specifications

PROPERTY	VALUE	TEST METHOD - ISO
Density	1.2 g/cm ³	GB/T 1033
Melt Flow Index	1.2 g/cm ³	GB/T 1033
Tensile Strength at Break	32.2 MPa	GB/T 1040
Elongation at Break	68.9%	GB/T 1040
Flexural Strength	41.31 Mpa	GB/T 9341



Flexural Modulus	1701 MPa	GB/T 9341
IZOD Impact Strength	8.58 (kJ/m ²)	GB/T 1843

Filament Specifications

PROPERTY	VALUE
Diameter 1.75mm	1.75 ± 0.05mm
Diameter 2.85mm	2.85 ± 0.05mm
Suggested Print Temperature	190°c-270°c
Suggested Print Speed	40-100+ mm/s
Suggested Bed Temperature	40°c-60°c

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