Spectrum FILAMENTS

TECHNICAL DATA SHEET

PLA Metal Brass

MATERIAL PROPERTIES

Physical	
Specific Gravity	2.33 g/cm³
MFI (210°C, 2.16kg)	40.6 g/10min
Mechanical Properties	
Tensile Strength at Break	22 MPa
Tensile Strength at Yield	30 MPa
Impact Strength - Charpy method 23°C	3.1 kJ/mz

GUIDELINE FOR PRINT SETTINGS*

Nozzle temperature	195-230°C
Bed temperature	40-50°C
Active cooling fan	YES (up to 100%)
Layer height**	0.05 - 0.30 mm
Shell thickness**	≥ 0.20 mm
Closed chamber	not necessary
Dry box	no
Ruby or hardened nozzle	Yes
Recommended nozzle	≥ 0.4 mm
Adhesive	not necessary
	(if you need increased adhesion or prevent warping: glue stick, Dimafix, 3DLac, Magigoo)

* settings are based on a 0,4 mm nozzle.

Tip: Due to the high metal powder content in the PLA Metal series filaments, it is recommended to use nozzles larger than the standard 0.4mm. The high metal content may cause accelerated wear of standard brass nozzles; therefore, it is advisable to use hardened steel or ruby nozzles.

DESCRIPTION

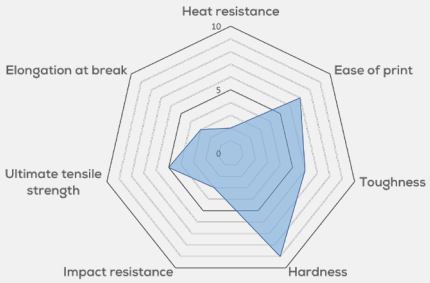
Spectrum PLA Metal Brass, enriched with brass powder, is an advanced material that combines the ease of printing typical of PLA with the aesthetics of metal. Due to the high brass powder content, prints made with this filament achieve a natural look and feel of genuine brass, including its weight and characteristic cool surface.

FEAUTURES

- High brass powder content
- Authentic brass appearance
- Approximately two to three times heavier than standard PLA
- Enhanced durability
- Ease of printing
- Extensive post-processing possibilities

STORAGE AND SHELF LIFE

Filament should be stored in a dry room at room temperature. Recommended storage temperature is ca. 18-25°C (64.4 -77.0°F). Keep out of moisture, sunlight and direct heat. When stored properly, product has a shelf life of 24 months.



SUPPORT

If you have any questions or experience any issues, please do not hesitate to contact us at **support@spectrumfilaments.com**