

TEHKNICAL DATA SHEET

PLA BRONZE 80%

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Product description:

PLA Bronze 80% is a specialty composite filament that combines PLA with 80% bronze powder. This material offers a distinctive metallic finish and heft, making it ideal for decorative items, artistic sculptures, and parts requiring a metal-like appearance. The high metal content also provides increased weight and some degree of conductivity, while still being biodegradable like standard PLA.

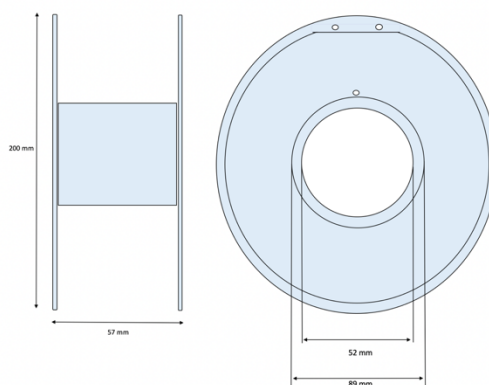
Storage:

Store in dry area, in a closed container away from moisture.

PRODUCT PARAMETERS

Parameter	Value
Filament diameter [mm]	1.75
Diameter tolerance [mm]	+/- 0,01
Oval tolerance [mm]	+/- 0,01

Spool dimensions [mm] (ø / height / hole ø)	200/57/52
Spool weight [g]	325
Spool material	Transparent PC
Weight with packaging [g]	1 550
Net weight [g]	1 000
Box dimensions [mm]	203/207/70



RECOMMENDED PRINTING PARAMETERS

Parameter	Value
Print temperature [°C]	200-220
Bed temperature [°C]	50-70
Cooling [%]	50-100
Closed chamber	Not required
Chamber temperature [°C]	-
Printing Speed [mm/s]	20-40
Nozzle type	Hardened steel or ruby

PHYSICAL PARAMETERS OF THE MATERIAL

Parameter	Value	Unit	Test method
Density	4,20	g/cc	D792
Melt flow rate	5-8	g/10min	D1238
Vicat softening temp.	60-70	°C	ISO 306 VST/A/50 (50°C/h,10N)
Tensile modulus	4 000	MPa	D882
Tensile strength	25-35	MPa	D882
Elongation at break	1-3	%	D882
Impact strength	2-4	KJ/m2	ISO 179 Charpy Notched @23°C (73°F)

The values above have been measured using standard test specimens made of non-colored material at room temperature. The figures should be considered as indicative values only. Actual properties of PLA BRONZE 80% parts can be affected by the printing parameters, design of the model, ambient conditions, application of the printout etc. It is essential that users test our products to determine whether they are suitable for their intended use.