



PrintaMent METAL

DATASHEET

Description

METAL is our 80% bronze filled filament which is easy to print, sand & polish. With this filament you can create the most beautiful objects with real METAL characteristics, such as a 3 x higher weight then standard PLA, a METAL feel & touch thermo-conductivity. lubricant increases the flow and prevents the filament to adhere to the nozzle. Finally all above combined with the correct hardness results in a filament that can be printed on almost every type of FDM 3D printer available on the market with retraction enabled on nozzles ≥0.35 mm. please consider to use a hardened nozzle

Features

- Approx. 80% bronze content
- PLA-based, 3 times heavier
- Metal feel & "cold" touch
- Excellent printability on both direct
 & Bowden style 3D printers
- Processing additive added for easy & reliable printing
- Quick & easy polishing and other post-processing
- Possibility to print with retraction
- Works on nozzles ≥0.35 mm

Colors

Bronze - Copper

Additional Info

METAL filament can be printed without a heated bed, but if you do have a heated bed the recommended temperature is ± 35-

 $60\,\text{C}$. Storage: Cool and dry (15-25 $^{\circ}$ C) and away from UV light. This enhances the shelf life significantly.

Technical Data

Dimensions

Size	Tolerance	Roundness
Ø1,75mm	±0,05mm	>95%
Ø2,85mm	±0,10mm	>95%

Physical Properties (Bronze)

Descrip [*]	tion		Typical Value
Specific gravity			3,39 g/cc
Yield stress (50mm/min)		18,3 MPa	
Strain (50mm/	at 'min)	break	8,00%
Tensile (1mm/n	` '	modulus	3990 Mpa
Impact strength, Izod unnotched 23℃		11,3 KJ/m2	

Physical Properties (Copper)

Description	Typical Value			
Specific gravity	3,41 g/cc			
Yield stress (50mm/min)	18,3 MPa			
Strain at break	4,5%			
(50mm/min)				
E-modulus (1mm/min)	4210 Mpa			
Impact strength, Izod unnotched 23℃	9,3 KJ/m2			

Thermal Properties

Size	Roundness
Printing temp.	195-220°C
Melting temp.	195±10°C
Heat Deflection Temp.	± 65℃

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