



Datasheet

RS Pro MT-COPPER

RS Stock No. 1254348

MT-COPPER our 80% copper filled filament which is easy to print, sand & polish. With MT-COPPER you can create the most beautiful objects with real METAL characteristics, such as a 3 x higher weight then PLA a METAL feel & touch and thermo-conductivity. Due to the high percentage of fillers MT-COPPER as virtually no shrinkage. A special lubricant increases the flow and prevents MT-COPPER 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.

Features:

Approx. 80% copper 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



Printed Sanded and Polished

Patinated

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Size	Ø tolerance	roundness
1,75mm	±0,05mm	≥ 95%
2,85mm	±0,10mm	≥ 95%

Physical properties

Description	Test method	Typical value
Specific gravity MFI Yield stress (50mm/min) Strain at break (50mm/min) Tensile (E) modulus (1mm/min) Impact strength, Izod Unnotched 23°C	ISO 1183 - ISO 527 ISO 527 ISO 527	3,41 g/cc n.a. 18,3 MPa 4,5% 4210 Mpa 9,3 KJ/m²
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Thermal Properties

Description	Test method	Typical value
printing temp.	DF	195-220 °C
melting temp.	ISO 294	195°C ±10°C
vicat softening temp.	ISO 306	±65°C

Additional info:

MT-COPPER can be printed without a heated bed, but if you do have a heated bed the recommended temperature is ±35-60°C. Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.

MT-COPPER can be used on all common desktop FDM or FFF technology 3D printers.

- * Please consider the use of a hardened steel nozzle when printing with MT-COPPER The copper powder inside makes the filament abrasive and will result in fast wear of regular brass nozzles.
- · Please have a look at the Printing, post-processing & other info document for further tips & tricks