Technical Data Sheet

Product name: MetalFil™ - Brass

MetalFil - Brass is a metal-filled PLA-based filament with approximately 70% of gravimetric brass filling. This incredible high filling with brass powders enables every FDM 3D printer user to 3D print brass objects which are almost indistinguishable from genuine brass casted objects.
MetalFil - Brass is easy to print and can be printed on full metal, PEEK, and PFTE hotends and can perfectly be printed with ≥ 0.4mm nozzles with retraction settings enabled on both direct drive extruders, as well as on Bowden style extruders, which is a truly unique feature for a metal-filled filament. MetalFil Brass printed objects are extremely easy to polish.

Properties	Typical value	Test Method	Test condition
Physical			
Specific gravity	2.78 g/cc	ISO 1183	-
Melt flow rate	-	-	-
Water absorption	-	-	-
Moisture absorption	-	-	-
Mechanical			
Impact strength	-	-	-
Tensile strength	-	-	-
Tensile modulus	-	-	-
Elongation at break	-	-	-
Flexural strength	-	-	-
Flexural modulus	-	-	-
Hardness	-	-	-
Thermal			
Print temperature	± 180 - 195° C	-	-
Melting termperature	± 195 ± 10° C	ISO 294	-
Viscat softening temp.	± 65° C	ISO 306	VST/A/50 (50° C/h, 10N)
Optical			
Haze	-	-	-
Transmittance	-	-	-
Gloss	-	-	-

Product details, certifications and compliance	
HS Code	39169090
REACH compliant	Yes
RoHS certified	Yes

Diameter	Tolerance	Roundness
1.75mm	± 0.05mm	≥ 95%
2.85mm	± 0.10mm	≥ 95%