



#### iv. Premium Metallic PLA

The Premium Metallic PLA filament is made from high quality of PLA and 65% copper powder. Its characteristic makes that the outer surface of printed objects can be polished up to a reflective metallic shine. The material is often used for making metallic look and feel objects (e.g., statues, artifact replicas, and ornaments). The characteristics of Premium Metallic PLA are as follows:

- Metal-like feel and surface shine
- High stiffness and high precision
- Easy polishing and post-processing
- PLA-based filament; two times heavier (than PLA)

IDENTIFICATION	
Material Name	Premium Metallic PLA filament
Additive	65 % copper powder
Product Use	Printing material for 3D printers using FFF technology
SPECIFICATIONS	
Color	Red
Package Available	600 g (Net weight)
Filament Diameter	1.75 mm
MECHANICAL PROPERTIES	
Tensile Strength	190.57 kg/cm <sup>2</sup>
Tensile Elongation	1.27 %
Flexural Strength	179.42 kg/cm <sup>2</sup>
Flexural Modulus	10461.36 kg/cm <sup>2</sup>
Impact Strength	49.66 J/m
THERMAL PROPERTIES	
Melting Point	175°C
Storage Temperature	10-40 °C / 50-104 °F
Operation Temperature	15-32 °C / 59-90 °F
Nozzle Temperature	200 °C / 392 °F
Print Bed Temperature	45 °C / 113 °F

#### Important notice:

- It is suggested to use a hardened steel nozzle for this abrasive filament.