PRODUCT DATASHEET

MONOCURE 3D
Advanced 3D Printer Products

CONDUCTIVE FILAMENT

END USE

Monocure 3D conductive filament will bring your projects to life! The conductive properties come from embedded materials that allow an electric current to flow through it. At (1.7-2.0~2.5) x $10^3\Omega$ surface resistivity, our Conductive Filament makes it easy to 3D print circuits, buttons, sensors, power connectors, and other electrical components. It prints on any PLA-compatible filament printer, prints smoothly and without warping.

PHYSICAL PROPERTIES

Product Code(s)	PLA-CONBLK-500
Colour(s)	Conductive Filament (Black)
Surface resistivity	(1.7-2.0~2.5)x 103Ω
Material Composition	PLA,PP based & Conductive polymer
Flexural Modulus & Tensil Strength	3-10% stronger than PLA
Chemical Compatibility	Bonds best to PLA, but it will also print with and bond to ABS, PVA (for removable supports), and low temperature PET filaments.

Compatible with most filament based 3D printers, including MaketBot, LeapFrog, Airwolf, Lulzbot, Flashforge, and many others.

APPLICATION

The conductive filament prints well at typical PLA printing temperatures of about 220-250°C.
You can print it either with or without a heated bed set to temperatures under 100°C. Please don't use a PLA cooling fan. Keep the conductive filament as dry as possible and store under dry conditions.
When not in use, keep in its original bag or a re-sealable bag with the original desiccant packet.

PRINTER SETTINGS

Spool Net Weight: 0.5kg
Diameter: 1.75mm ± 0.05mm
Print Temperature: 200-230°C
Print Speed: 20-50mm/s
Bed Temperature: 100°C

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