PA Carbon Fiber Nylon 3D Filament

Print in 3D and create prototypes, spare parts, quick and on-demand production, etc. in any shape or geometry. Gearlab 3D Filaments come in different plastic materials and with varying properties.

Carbon filled PA (Polyamide) Nylon is an incredibly strong and stiff 3D printing material, which is lightweight and stable.

Nylon works well for printing objects like gears, nuts, bolts, hinges and other functional parts.

Carbon Fiber Nylon filaments tend to be very abrasive when extruded. Be sure to upgrade to a wear resistant steel nozzle in order to print this filament effectively. 0.5 mm or larger nozzle is recommended to prevent carbon fiber clogging.

Please note that nylon filament is extremely sensitive to moisture and need to be stored in a dry environment, only to be opened immediately before printing. After printing, it is highly recommended to store the nylon filament in a dry environment and use silica gel, re-sealable bag, vacuum, and/or elevated temperature for best storage.



Gearlab PA Nylon Carbon Fiber 3D Filament

Properties

Diameter	1.75 mm
Tolerance	0.05 mm
Weight	0.5 kg
Printing temperature	220-260°C
Printing speed	60-90 mm/s
Layer resolution	0.1-0.2 mm
Hot bed	80-110°C
Printing raft	Required
Printing substrate	Required
Tensite strength	≥ 50 Mpa
Impact strength	≥ 15 KJ/m
Elongation at break	150%
Distortion temperature	≥ 100°C

Features

- Incredibly strong and stiff
- Stable and smooth printing size and low material warp or shrinkage
- Extremely sensitive to moisture and need to be stored in a dry environment
- Higher tendency to oozing and clogging due to the carbon fiber content



IF YOU CAN DREAM IT, YOU CAN PRINT IT!