Industrial Grade 3D Printing

In addition to CNC machining, PartsBadger offers industrial grade 3D printing as a manufacturing service. Additional fiber reinforcement can be added to drastically increase strength and other properties of the part.

Materials Onyx / A high strength nylon & carbon fiber composite thermoplastic

White Nylon / A non-abrasive, engineering grade thermoplastic

Fiber Reinforcement Carbon Fiber / Increases stiffness and strength, highest strength-to-weight ratio

Kevlar / Lowest density of all fibers with increased impact resistance

HSHT Fiberglass / High strength, high temperature

Fiberglass / Lowest cost fiber, 11x more rigid than PLA, 26x more rigid than Nylon

Post Printing Processes Support Removal / Done as a standard on all parts

Internal Threads / Added via heat-set threaded inserts after printing.

More Information

Fiber Reinforcement



Fiber reinforcement can be added in 10%, 25%, 50% or 75% of total part volume. It can be focused on specific part features if required. Refer to the material datasheet for specifications on available fiber.

Threaded Inserts



For parts with interior threads called out, heat-set threaded inserts will be added post printing. The part files will need to be modified to accept these inserts. The design of certain parts may inhibit this.

Size Restrictions

(330 x 270 x 200 mm)

File Types

Lead Time

Tolerances

Max 12.9" x 10.5" x 7.8"

3D Files .STP .STEP .STL **2D Files** .PDF or .DWG

Standard 7 business days

Standard ± 0.0197 "

 $(\pm 0.5 \, \text{mm})$