

From Art to Part

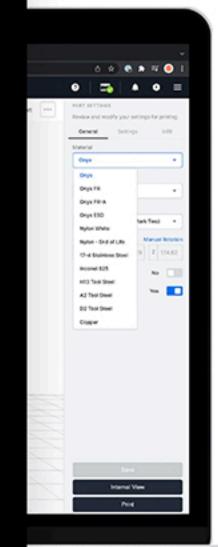
A Step-by-Step Guide to 3D Printing

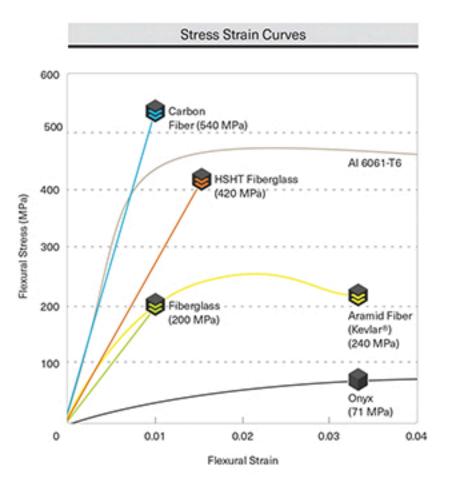
## From Art to Part

## Parts

more configuration due to the DFR. While FFF , CFR allows for on.

netal, material selection tion process is more composite printers can s: traditional FFF filament





## Recommended steps:

- Choose a composite base filament. Markforged offers three main types of short fiber-filled nylon: Onyx™, Onyx FR™ (flame retardant), and Onyx ESD™ (ESD compliant).
- Select a continuous fiber. You can opt not to reinforce a
  part or use available fibers. Markforged offers Carbon
  Fiber, Fiberglass, Aramid Fiber (Kevlar®)\*, and High
  Strength High Temp (HSHT) Fiberglass. Reinforced
  parts inherit the specific fiber material's resistance to
  breaking and deforming when it is subject to a bending
  force measured in flexural stress and flexural strain.
  In order to print each part, consider what it needs in
  terms of strength resistance to fracture or permanent
  deformation (Flexural Stress) and stiffness —
  resistance to elastic deformation (Flexural Strain).

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