



Selective Laser Sintering is similar to SLA in that we use a laser to solidify and bond material into layers of the 3D structure. SLS allows us to use plastics that are more suited towards end use. We can use a blend of nylon plastics and glass-filled nylon which creates a surface roughness which is not smooth like SLA. However the use of nylon results in prints which are more durable, strong, and flexible.

Selective laser sintering is a fantastic process, which leads to weight reduced designs (comparative to traditional manufactured parts).

SLS is growing in popularity and has many applications from the aerospace industry, to functional parts, for geometrically artistic parts, and in the production of medical instruments just to name a few.

APPLICATIONS:

- LIMITED LIFE LIVING HINGES
- DIRECT DIGITAL MANUFACTURING
- BRACKETS & MOUNTS
- JIGS & FIXTURES
- FUNCTIONAL PARTS

PROS:

- FOOD SAFE
- BIO COMPATIBLE
- HIGHLY FUNCTIONAL
- HIGH TEMPERATURE RATING (160°C)

CONS:

- SURFACE ROUGHNESS
- POROUS



SLS CAPABILITY



SLS MACHINE SPECIFICATIONS:

DATA FORMAT:

Binary STL

MAX. BUILD SIZE:

320mm(X) x 320mm(Y) x 600mm(Z)

LAYER STEP SIZE:

0.15mm

MINIMUM FEATURE SIZE:

0.5mm XYZ

MATERIALS AVAILABLE:

EOS PA2200

EOS PA3200GF