

FibreTuff II

3D printable biomaterial for the advanced user



FibreTuff II is a nylon based composition with polyolefin and cellulose fiber. This biomaterial has passed the USP Class VI certification by NAMS. The FibreTuff II is focused on solving problems for advanced users in the medical market. The 3D Printed parts will have the look and feel like human bone, radiopacity with excellent screw retention, laser and saw cutting ability.

The FibreTuff is anisotropic, better to print in a Z direction versus x and y. The moisture content of FibreTuff II out of the bag doesn't require desiccant drying. Please put spool back in bag after each use and seal.

Recommended processing conditions.

The nozzle size should be .4 or .5mm with temps at 220C.

The printer bed should be heated at 80C.

Printing speeds 45 mm/sec

Printer oven is desired - temps 70C.

Layer height is .6 -.8 mm.

Density or infill is at 95 - 99% infill

Adhesive required for printing

Mechanical properties

Tensile Modulus ISO 527 850 N/mm²

Tensile Strength ISO 527 23 N/mm²

Elongation at break ISO 527 4%