



Fossilabs Offers 3D Printed ‘Fully’ Porous PEEK Bone-Like Scaffolding Structures

First-of-its-kind 3D printed PEEK porous medical implants with advanced hydrophilicity

West Chester, PA / January 1th, 2020 – [Fossilabs, LLC](#), a startup company focused on engineering porous bone-like structures in polyether ether ketone (PEEK), today announces the launch of the first-ever Fused Filament Fabrication (FFF) 3D printed ‘fully’ porous PEEK bone-like structures within implantable devices. Fossilabs novel offering now makes it possible to 3D print solid or defined porous structures anywhere within the 3D space. Prior to this development, all other product offerings have only had surface porosity or windows within defined layers.

Fossilabs has developed proprietary hardware and software to make it possible to easily identify solid and controlled bone-like macroporosity regions within existing client models. Primarily for spacers and cages for the spine, desired bone growth areas can be defined, and 3D printed in PEEK.

“Using 3D printing technology makes it possible to create a porous structure that would not be possible using traditional methods. The increased surface area and the full porosity encourage new bone on-growth and in-growth of the implant, leading to greater integration strength. Add hydroxyapatite (HA) nanocoating, now you have something unmatched in the industry,” said [Todd Reith](#), Founder/President at Fossilabs.

With a proven process and proof of concept, Fossilabs is seeking medical device companies to license its technology to enhance their existing static product lines and develop exclusive new high-performance products.

About:

Fossilabs, LLC engineers porous bone-like structures with PEEK, using 3D printing FFF process to enhance medical implant devices.

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