

## 3D-Printing: we have the right materials!



High Performance Polymers is specialized in manufacturing customized products and systems. The business line has been producing high-performance plastics for over 40 years, and has a well-known competency in polymer and powder technology – in development, production, applied technology and service.

Additive Manufacturing or 3D Printing is a new technology to shape plastic materials.

3DP is based on the principle of the layer-wise build-up of a structure by combining powders, fluids, filaments, sheets, or binders to form a part. In general, the process can be characterized as follows:

- specification of a three-dimensional model in the form of CAD data
- no use of molding tools
- generative build-up; molding occurs not by removal of material, but by applying it any desired geometry
- offers freedom of design

Evonik has many years of experience in developing and processing products that lend themselves specifically to new 3D printing processes. Based on CAD data sets, 3DP generates complex components through the layerwise application of polymer powders, filaments, fluids, binders or other suitable materials.

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