



Science.
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► 3M™ Dyneon™ Fluoropolymers

3D Printing of Fully Fluorinated Polymers

3DPrinter

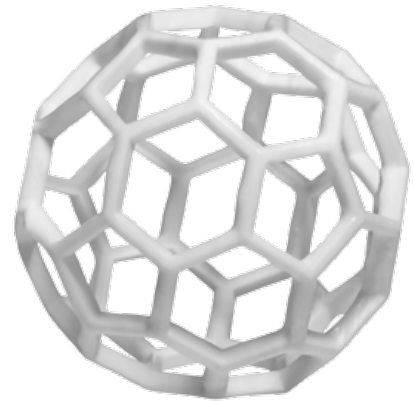
3D printing complements fluoropolymer processing

3M has developed a patent-pending technology to 3D print fully fluorinated polymers. This technology allows 3D printing as an additional and differentiated way of processing fully fluorinated polymers. In this way the fabrication of complex structures is possible, which otherwise cannot be produced or only produced with expensive traditional processing techniques. 3M is pioneering 3D printing with PTFE.

Benefits of processing fully fluorinated polymers via Additive Manufacturing

New design capabilities

- ▶ Almost unlimited geometric flexibility can lead to improved designs and potential weight reduction
- ▶ Adds function to design
- ▶ Faster response to customer inquiries
- ▶ Enables on demand supply of customized products



Enhanced product development cycle

- ▶ Accelerates and improves design iteration
- ▶ Eliminates the need for prototype tooling
- ▶ Reduces unit cost and lead time of small lot sizes

Cost savings opportunities

- ▶ Eliminates initial tooling and tooling maintenance costs
- ▶ Reduces assembly steps via printing integrated assemblies
- ▶ Generates less waste
- ▶ Reduces inventories by printing spare parts on demand

Generally suited for lower production volume and complex geometries.

Where to go for more information?

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