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3DXTech LLC to launch 3D Printing Filaments based on Arkema's Kynar® PVDF and Semicrystalline Kepstan® PEKK at AMUG

The new PEKK and PVDF filaments are designed for 3D printing of highly technical parts requiring extreme performance. Properties include resistance to high temperatures and harsh chemicals, and outstanding flame and smoke properties.

"Arkema's Kepstan® PEKK (polyetherketoneketone) and Kynar® PVDF are two of the most advanced polymers used in extreme environments, such as aerospace and chemical processing environments. It is well known in the additive manufacturing industry that a lack of material options is a major factor limiting next generation applications," says Adrien Lapeyre, Arkema's Global Market Manager for 3D Printing powders.

"We are proud to partner with Arkema," said Matt Howlett, President of 3DXTech LLC. "The Arkema and 3DXTech R&D teams worked well together to solve major challenges, particularly with the semi-crystalline polymers that are typically not ideally suited for extrusion printing."

The new Kynar® PVDF and Kepstan® PEKK based filaments are now available in 1.75mm and 2.85mm diameters from 3DXTech in Byron Center, MI and are marketed under the Firewire® trademark.

Kynar® PVDF has been trusted for decades in the most demanding industrial applications, requiring outstanding resistance to a wide range of aggressive chemicals. PVDF exhibits high thermal stability up to 150°C and extreme durability in direct sunlight exposure.

Kepstan® PEKK is an extreme performance thermoplastic with a highly stable chemical backbone. Its semicrystalline structure offers an outstanding combination of mechanical and thermal strength together with tremendous chemical and fire resistance. The Kepstan® PEKK filaments offer both ease of printability and the highest performance of any thermoplastic material currently available.

Kepstan® and Kynar® are registered trademarks of Arkema. Firewire® is a registered trademark of 3DX Tech Inc.

For more information, visit www.3dxtech.com

Located in Byron Center, MI, USA, 3DX Tech is a supplier of premium 3D printing filaments. They specialize in filaments for functional prototyping and custom production in highly technical markets including aerospace, automotive, and semiconductors.

A designer of materials and innovative solutions, Arkema shapes materials and creates new uses that accelerate customer performance. Our balanced business portfolio spans High Performance Materials, Industrial Specialties and Coating Solutions. Our globally recognized brands are ranked among the leaders in the markets we serve. Reporting annual sales of €8.3 billion (\$9.4 billion) in 2017, we employ around 20,000 people worldwide and operate in some 55 countries. We are committed to active engagement with all our stakeholders. Our research centers in North America, France and Asia concentrate on advances in bio-based products, new energies, water management, electronic solutions, lightweight materials and design, home efficiency and insulation. www.arkema.com

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