

Arkema highlights 3D printed innovative industrial applications at AMUG 2019

Arkema will promote its high performance materials for 3D Printing at the Additive Manufacturing Users Group (AMUG) 2019 Conference in Chicago, IL -US, from March 31 to April 4, 2019. During technical sessions, our experts will present how our materials contribute to unlock new industrial applications.

"Arkema is focused on unlocking the next revolution of industrial opportunities by bringing full solutions and expertise to end users" said Guillaume de Crevoisier, Global Business Director, 3D Printing Solutions by Arkema. "AMUG has always been a great venue for us to discuss new production applications and forge new partnerships."

The AMUG Agenda features Arkema during two sessions on April 3rd, 2019 - "Top Material Companies Driving Innovation in the 3D Printing Market" and "Material Specific Solutions for Transportation, Sports, and Dental Applications".

Join us at AMUG to learn more about the following:

Powder Bed Fusion:

Arkema will display parts and highlight "real world" production part case studies from its powder bed fusion partners. **Rilsan**® Polyamide 11 powders are the only high performance materials available from a completely bio-based origin and they offer some of the strongest mechanical properties of all polyamide powders.

For the most demanding applications, parts made with **Kepstan**® PEKK powders offer robust mechanical performance, extreme high temperature tolerance, low outgazing, low flammability, gamma stability and extremely high chemical resistance. There will be several parts printed by Hexcel, a world leader in advanced composites for aeronautics, space and defense, using their formulation based on **Kepstan**® PEKK.

Photocure:

Arkema's Sartomer division will introduce eight new products from its **N3xtDimension**® line of UV-curable engineered liquid resins. New launches include N3D-I200 for impact resistance, N3D-F2110 for flexibility, N3D-P2120 for high quality prototyping, N3D-C1700 for casting applications, and other unique resins for advanced performance. Sartomer's **N3xtDimension**® resins offer customized properties and freedom of design. They are compatible with the main printing technologies – SLA, DLP, MJF and BJ.

Extrusion Printing:

Arkema's partner, 3DXTech, will launch a filament made from **Pebax**® elastomer. "3DXFlex™ TPE" is the first commercially available **Pebax**® TPE based filament developed for extrusion printing. This lightweight elastomer is world renowned in sports markets for its outstanding energy return. Printed parts exhibit excellent layer to layer adhesion resulting in exceptionally strong parts. Also on display will be 3DX Tech's FluorX™ filament made from Arkema's **Kynar**® PVDF. FluorX™ filaments are made from a patented formulation launched in 2018 that now has a print profile available on Ultimaker's Cura marketplace.

Kepstan® PEKK is quickly becoming the preferred ultra-high performance polymer for extrusion printing systems. As mentioned previously, this material offers an excellent combination of processability, strength, chemical resistance, low flammability, and high temperature properties. Filaments made from **Kepstan**® PEKK are available from several partners globally. There will be a live demonstration of large scale extrusion printing with **Kepstan**® PEKK in partnership with Titan Robotics™ on Sunday, March 31, 2019.

Arkema has just recently expanded its capacity for **Kepstan**® PEKK materials with a new plant at its site near Mobile (AL – US). This new facility ensures a consistent supply to serve the growing needs of markets requiring materials

that perform under extreme conditions, such as aerospace, oil and gas, consumer electronics, automotive, and additive manufacturing. Arkema is also expanding capacity for **N3xtDimension**® resins at its Nansha plant in China, and **Orgasol**® Polyamide12 powder in Mont, France, to come on stream in 2019.

3D Printing Solutions by Arkema is unlocking the next revolution in manufacturing. To learn more, stop by Arkema's exhibit booth "P8" at the *Additive Manufacturers User Group Conference and Expo* at the Hilton Chicago, March 31 – April 4, 2019.

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For more information, visit www.3d-arkema.com

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 €8.8 billion in 2018, we employ approximately 20,000 people worldwide and operate in close to 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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