

Solvay Booth #1924 | RAPID + TCT 2018

## Solvay enables simulation solutions for high-performance 3D printed parts with software support from e-Xstream engineering

**Alpharetta, Ga., April 25, 2018** --- Solvay further established itself as an emerging leader in specialty polymers for additive manufacturing (AM) today with the news that high-performance KetaSpire® PEEK AM filament will be the first polyetheretherketone polymer included in e-Xstream engineering's Digimat® simulation software due for launch in June 2018.

"KetaSpire® PEEK's inclusion in Digimat® represents Solvay's latest step toward becoming the industry's leading resource for successfully applying advanced polymers in 3D printing processes," said Christophe Schramm, business manager for additive manufacturing at Solvay's Specialty Polymers global business unit. "Solvay is building on its long-standing partnership with e-Xstream engineering to quickly expand the number of specialty polymers available for simulation on the Digimat® platform, and ultimately enable our customers to 'print it right the first time' when using Solvay's high-performing thermoplastics."

Part of the latest edition of Digimat® 2018.1, Digimat® for Additive Manufacturing will enable designers and engineers to accurately predict warpage and residual stresses of 3D-printed KetaSpire® PEEK parts as a function of additive manufacturing processes, such as fused filament fabrication (FFF). With Digimat® for Additive Manufacturing, users can further optimize their process and minimize part deformation before 3D-printing their parts. Digimat® 2018.1 is due for global release this June, but Solvay customers can contact Solvay today to benefit from the new dataset describing KetaSpire® PEEK's material laws.

Widely regarded as one of the highest-performing thermoplastic polymers, KetaSpire® PEEK AM filament offers superior mechanical strength and chemical resistance for 3D-printed parts. While Solvay's advanced PEEK polymer was historically limited to conventional processing methods, the newly launched KetaSpire® PEEK AM filaments now make this material an option for additive manufacturing applications that demand a higher level of end-part performance.

"Solvay's combination of industry-leading materials, expertise and collaborative innovation enabled us to develop highly accurate predictive modeling data for KetaSpire® PEEK AM filaments," said Roger Assaker, CEO of e-Xstream engineering and chief material strategist for e-Xstream's parent company, MSC Software. "As a result, Digimat® simulation software offers additive manufacturers cutting-edge new material options to push the design boundaries of their 3D-printed parts."

Find out more at [www.solvayam.com](http://www.solvayam.com).

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® Digimat is a trademark of e-Xstream engineering SA

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### Solvay

Solvay is an advanced materials and specialty chemicals company, committed to developing chemistry that address key societal challenges. Solvay innovates and partners with customers worldwide in many diverse end markets. Its products are used in planes, cars, batteries, smart and medical devices, as well as in mineral and oil and gas extraction, enhancing efficiency and sustainability. Its light-weighting materials promote cleaner mobility, its formulations optimize the use of resources and its performance chemicals improve air and water quality. Solvay is headquartered in Brussels with around 24,500 employees in 61 countries. Net sales were €10.1 billion in 2017, with 90% from activities where Solvay ranks among the world's top 3 leaders, resulting in an EBITDA margin of 22%. Solvay SA ([SOLB.BE](https://www.solvay.com)) is listed on Euronext Brussels and Paris (Bloomberg: [SOLB.BB](https://www.solvay.com) - Reuters: [SOLB.BR](https://www.solvay.com) Program).

### Solvay Specialty Polymers

Solvay Specialty Polymers manufactures over 1500 products across 35 brands of high-performance polymers – fluoropolymers, fluoroelastomers, fluorinated fluids, semi-aromatic polyamides, sulfone polymers, ultra-high performance aromatic polymers, and high-barrier polymers – for use in Aerospace, Alternative Energy, Automotive, Healthcare, Membranes, Oil and Gas, Packaging, Plumbing, Semiconductors, Wire & Cable, and other industries. Learn more at [www.solvayspecialtypolymers.com](http://www.solvayspecialtypolymers.com).

### e-Xstream engineering

Founded in 2003, e-Xstream engineering ([www.e-Xstream.com](http://www.e-Xstream.com)) is a software and engineering services company 100% focused on the multi-scale modeling of composite materials and structures. The company helps customers, material suppliers, and material users across many industries reduce the cost and time needed to engineer innovative materials and products using Digimat®, the nonlinear multi-scale material and structure modeling platform. Since September 2012, e-Xstream engineering is a wholly owned subsidiary of MSC Software. MSC Software is part of Hexagon (Nasdaq Stockholm: HEXA B; [hexagon.com](http://hexagon.com)), a leading global provider of information technology solutions that drive productivity and quality across geospatial and industrial landscapes. The e-Xstream engineering corporate logo and Digimat® logo are trademarks or registered trademarks of e-Xstream engineering SA. <http://www.e-xstream.com>.

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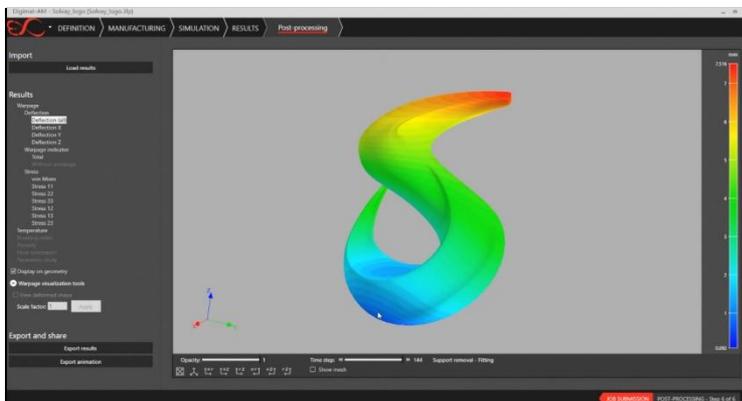
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Solvay's high-performance KetaSpire® PEEK AM filaments will be the first polyetheretherketone polymer to be modeled on e-Xstream engineering's Digimat® simulation software, offering additive manufacturers cutting-edge new material options to push the design boundaries of their 3D-printed parts. Photo courtesy of e-Xstream engineering.