

News Release

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BASF 3D Printing Solutions and Origin collaborate with footwear manufacturer ECCO

- **BASF's Ultracur3D photopolymer material series fully validated with Origin's manufacturing-grade printer and platform**
- **BASF and Origin to showcase joint activities at Rapid + TCT in Detroit at Origin's booth (#2153)**

BASF 3D Printing Solutions and its strategic partner Origin, an open-platform additive-manufacturing printer provider are collaborating with ECCO, a footwear manufacturer to develop a wholly new approach to footwear production. The Danish ECCO Group, an innovative global manufacturer of high-quality footwear, is using the Origin platform with BASF's Ultracur3D photopolymer materials at its R & D Center in Denmark. The initial results demonstrate outstanding detail accuracy and mechanical stability with Origin's unique programmable polymerization process (P3).

Origin's goal, together with BASF 3D Printing Solutions (BASF 3DPS) and other/selected material partners, is to establish additive manufacturing as a suitable solution for mass production. Origin's open platform coupled with BASF's materials enables the sharpest-possible focus on end-customer applications to meet even the most challenging requirements.

"Origin's newly developed printing system is optimally tuned for our innovative Ultracur3D photopolymer series", confirms Arnaud Guedou, Business Director Photopolymer Solutions, BASF 3DPS. "This enables end-users to achieve high processing speeds and a superb surface finish that reliably reproduces even the finest textures and ensures outstanding mechanical stability. We have worked shoulder to shoulder with our customers and know that we need to provide market-beating customized solutions in terms of surface finish, mechanical properties, price-per-part produced, and productivity. The combination of Origin's technology with BASF's materials is extremely promising, as the initial results and first functional prototypes of the collaboration clearly illustrate."

The Ultracur3D product line by BASF 3DPS includes proven as well as newly developed photopolymers for use in various printing processes such as digital light processing, stereolithography, or with LCD equipment, and now with Origin's P3 process. The suite of Ultracur3D products features excellent strength and impact resistance, high elasticity and impressive long-term UV stability. It is suitable for the production of prototypes as well as for mass production in practically all major industries.

"Not only did we work closely with BASF to develop new materials, but also the 3D printing processes for each of them", explains Charlie Vestner, Senior Vice President Sales & Marketing, Origin. "In close consultation together we determined how we can achieve specific high-quality resolutions and process control that suit our customers and their applications perfectly. We offer customers unrivalled control over the printing process – not just in designing their product, but also in the sheer scope of design options it offers, meaning it can be tailored precisely to each specific application."

"Origin is an ideal partner for BASF as they share our industry-leading quality standards", says Oleksandra Korotchuk, Business Development Manager, BASF 3DPS. "With their printing processes they are able to achieve consistent Class A surface finishes and exceptional resolution, while our materials contribute to ensuring long-term functional usage."

BASF 3D Printing Solutions will be present at Origin's booth during RAPID + TCT on Tuesday May 21, 2019 in Detroit. So be sure to drop by Booth #2153 to discuss your individual application requirements with our experts!

For more information on the partnership between BASF and Origin, visit our website: <https://ultracur3d-photopolymer.com/our-technologies-partners/dlp-projector/origin.html>

About BASF 3D Printing Solutions

BASF 3D Printing Solutions GmbH, headquartered in Heidelberg, Germany, is a fully owned subsidiary of BASF New Business GmbH. It focuses on establishing and expanding the business with 3D printing materials, system solutions, components and services. BASF 3DPS is organized into startup-like structures to serve customers in the dynamic 3D printing market. It cooperates closely with the global research platforms and application technologies of various departments at BASF as well as with leading research institutes, universities, startups and industrial partners. Potential customers are primarily companies that intend to use 3D printing for industrial manufacturing; typical industries include automotive, aerospace and consumer goods.

For further information please visit: www.basf-3dps.com.

About BASF

At BASF we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. The approximately 122,000 employees in the BASF Group work on contributing to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio is organized into six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of around €63 billion in 2018. BASF shares are traded on the Frankfurt Stock Exchange (BAS) and as American Depositary Receipts (BASFY) in the U.S. For further information please visit: www.basf.com.

About Origin

Based in San Francisco, CA, Origin is pioneering the concept of Open Additive Production – a new way to build based on open materials, extensible software, and modular hardware. Origin One, their manufacturing-grade 3D Printer, uses programmable photopolymerization to precisely control light, temperature, and force among other variables to produce parts with exceptional accuracy and consistency. The company works with a network of materials partners to develop a wide range of commercial grade materials for its system, resulting in some of the toughest and most resilient materials in additive manufacturing. The company was founded in 2015 and is led by alumni from Google and Apple. Investors include Floodgate, DCM, Mandra Capital, Haystack, Stanford University, and Joe Montana. Learn more about Origin here: <https://www.origin.io>