bigrep REDEFINING **ADDITIVE**

*Press Release*

# *BigRep Expands its Specialized Large-Format Materials Portfolio to Support Advanced Applications*

*BigRep is expanding its materials portfolio, launching 4 new materials at FABTECH 2019.*

***Chicago, IL, November 11, 2019*** – BigRep, the global leader in large-format 3D printers and additive solutions, will introduce four new BigRep certified materials at **FABTECH** in **Chicago** (November 11 – 14, 2019, BigRep booth A 4350). These new materials – PLX, PET-CF, PA6/66 and BVOH – support BigRep's mission to provide cost-effective and environmentally-friendly engineering-grade materials to large-format additive manufacturing.

"These materials are specially designed to take full advantage of our large-format 3D printers' speed, precision and quality," said BigRep CBO, Frank Marangell. "They are the result of combining our continuous, customer-focused experiences and extensive knowledge of materials to push the limits of AM even further." At FABTECH, Mr. Marangell will also give a presentation on **"How Large-Format 3D Printing is Transforming Industries"** (Tuesday, Nov. 12th, 12:45 CT).

**BigRep PLX** is being introduced to address the industry's need for a fast, reliable and environmentally friendly material. The material is a general-use bio-performance filament derived from organic compounds perfectly suited for open-environment 3D printing. Best suited for design and functional prototyping, BigRep's PLX can print up to 80% faster than standard PLA with no modification to the 3D printer at a strength surpassing the typical mechanical properties of even ABS-printed parts.

The second new material, **PET-CF**, is a **carbon fiber reinforced filament** now introduced to BigRep's growing line of engineering-grade materials for high-strength, large-format printing. Offering exceptional dimensional stability and low moisture absorption, PET-CF is capable of producing exceptionally strong, stiff parts with a fine surface finish and heat resistance up to 100 °C. Designed for the BigRep STUDIO G2, the material is suitable for functional, performance applications.

**BigRep's PA6/66** is a highly durable, lightweight thermoplastic filament with high rigidity and resistance to heat and chemicals. Its high compatibility with machining and mechanical strength make it an excellent candidate for many industrial applications like tooling, patterns, molds and end use parts. Functionally similar to Nylon PA6, a common material for injection molding, PA6/66 is uniquely suited for scalable batch productions, printing end-use parts or prototyping with nearly identical material properties to mass production parts.

Equally innovative is BigRep's new **BVOH support material**, an advanced **water-soluble filament** that eliminates support-removal post-processing for complex 3D-printed parts. Due to BVOH's solubility and ability to support heavy prints, it is especially suited for printing complex, ready-to-use prototypes.

With open-source material compatibility, BigRep printers are the ideal choice for industrial users with advanced or niche material requirements. As a company dedicated to supporting its community of industrial users, BigRep is always working with groups of high-level users with specific material requirements for their advanced processes. By addressing the needs of industrial users and consistently launching supported specialized material, BigRep ensures the value and reliability of its additive offerings are always growing.

BigRep continues to expand its filament offerings, enabling users to produce large-format parts with

advanced, engineering-grade materials. By introducing and supporting the engineering-grade materials our industrial users require, BigRep continues to expand its additive systems' capabilities to enable the advanced applications and efficient workflows that help businesses grow and prosper.

**About BigRep**

BigRep develops the world's largest serial production 3D printers, creating the industry benchmark for large-format printing with the aim to reshape manufacturing. Its award-winning, German-engineered machines are establishing new standards in speed, reliability and efficiency. BigRep's printers are the preferred choice of engineers, designers and manufacturers at leading companies in the industrial, automotive and aerospace sectors. Through collaborations with its strategic partners – including Bosch Rexroth, Etihad Airways and Deutsche Bahn – and key investors – including BASF, Koehler, Klöckner and Körber – BigRep continues to develop complete solutions for integrated additive manufacturing systems, as well as a wide range of printing materials on an open-choice source. Founded in 2014, BigRep is headquartered in Berlin with offices in Boston and Singapore. Leading the way in one of the world's key technologies, our multinational engineering teams are highly trained, interdisciplinary and customer focused.

**For more information on BigRep and its solutions and to arrange an on-site interview with BigRep CBO, Frank Marangell please contact:**

Abbey Delaney
North American Marketing Manager BigRep
M: (989) 860 – 8210 E: abbey.delaney@bigrep.com

Juergen Scheunemann
PR & Communications BigRep GmbH
T: +49 30 9487 1430  E: bigrep@berlinpr.de

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