

## Efficiency in 3-D Printing: BigRep Launches High-Speed Pro HS Filament

- BigRep Pro HS Filament reduces printing time by up to 50 percent
- No machine modification necessary
- Ideal for large format objects and prototypes

**Berlin, 13th June 2017.** Cost-efficient production is essential in times of smart production. With Pro HS, the Berlin-based technology start-up BigRep brings a unique printing filament to the market. The innovative material reduces production times in 3-D printing by up to 50 percent and makes additive manufacturing more efficient and cost-effective for companies.

The BigRep Pro HS Filament is, in addition to the high-temperature-resistant filament Pro HT, the second product of the BigRep "Industrial Filament" line. The mechanical properties and also the printability of Pro HS are similar to those of PLA, but the material is somewhat more robust and has twice the flowability. The production of this non-oil-based biopolymer is also much more environmentally compatible than that of ABS plastics. The raw materials come from sustainable and renewable resources.

Pro HS can be used in various industrial areas, but is particularly suitable for printing large-format objects and prototypes. "With the BigRep Pro HS Filament we have developed a versatile material. In addition to the significantly reduced printing time, a major advantage of the product is that machines do not need to be modified for the application. It can be used on both new and older BigRep models. Especially when working with our large-format printers BigRep ONE and BigRep STUDIO, we offer our customers a flexible, complete solution for the most diverse requirements", explains René Gurka, CEO of BigRep GmbH.

BigRep Pro HS Filament is available in natural and basalt colors. Both paints are matt after extrusion and give the objects a refined look - even at large layer heights. On request, the color can be customized.

The BigRep Filament Pro HS is now available in the three coil sizes 2.5 kg, 4.5 kg and 8 kg in 2.85mm diameter in the [BigRep-Onlineshop](#).

**BigRep Pro HS Filament - Technical Data:**

**Material:** BioPolymer

**Density:** 1.4 g / cm<sup>3</sup>

**Diameter:** 2.85 mm

**Print Temperature Guideline:** 170-210 ° C

**Heating Bed:** 0-60 ° C

**Heat Distortion Temperature (ISO 75):** 48 ° C

**Tensile Strength (ISO 527):** 43 MPa

**Impact Strength (ISO 179):** 59 KJ / m<sup>2</sup>

**Flexural Modulus (ISO 178):** 3500 MPa

**About BigRep:**

BigRep is a technology start-up with headquarters in Berlin and offices in New York and Singapore. One of the groundbreaking developments of the company founded in 2014 is the BigRep ONE, which is supplemented by the smaller BigRep STUDIO. Interdisciplinarity and well-founded experience in the field of additive production characterize the multi-national team of BigRep, now more than 60 employees. In addition to new products, the Berlin Kreuzberger company is now concentrating on complete solutions for industrial customers in the form of integrated additive manufacturing systems. Such as the continuous printing project with TNO, which was announced in Autumn 2016. The aim of the highly innovative engineering company is to revolutionize design, prototyping and industrial production from the ground up. Over the next five years, BigRep intends to become a leading international supplier of additive manufacturing systems.

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