

TECHNICAL DATA SHEET

BIGREP HI-TEMP CF



DESCRIPTION

BigRep HI-TEMP CF is a filament compound combining the world of sustainable bioplastics with the performance of high-tech carbon fibre technology. It is lightweight, resistant to high temperatures and can be used to create superior stiff and stable parts, including UV resistance. It is highly suited for applications in motorsports, aerospace, sporting goods and medical. As well as applications in moulding and forming technology.

KEY FEATURES

- Exceptional Mechanical Properties
- High Stiffness
- Lightweight Constructions
- High Temperature Resistance
- UV Resistance

PERFORMANCE



STRESS

Great stress performance and resistance

BEND & FLEX

High resistance to bend and flex

HEAT

Suitable for temperatures higher than 100°C

MECHANICAL RESISTANCE

Exceptional mechanical resistance

ENVIRONMENTAL RESISTANCE

UV resistant & weatherproof, medium chemical resistance

ECO FOOTPRINT

Recycling and repairing possible

SURFACE

Matt surface, post-processable

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PROPERTIES

Tensile Modulus (ISO 527)	7000 MPa
Tensile Strength (ISO 527)	65 MPa
Stress at break (ISO 527)	58 MPa
Impact Strength, notched (ISO 179)	4.5 kJ/m ²
HDT / B (ISO 75)	115 °C
Density	1.20 g/cm ³

RoHS, REACH, FREE OF SILICONE, Degradable acc. ISO 14855

Compatibility: BigRep **STUDIO G2** (soon Bigrep ONE and PRO/ACE)

Suitable for: conventional FFF extruders with Abrasive Filament Hardware Set-up

The data mentioned in this TDS, particularly the recommendations for application and use of products are based on our recent knowledge and experience. Due to the fact of having so many different materials involved and conditions of applications which are out of our influence, we strongly recommend doing sufficient tests in order to guarantee that products are suitable for the intended process and applications. Except for wilful acts any liability based on such recommendations or any verbal advice is hereby expressly excluded.