



## Effortless 3D printing for versatile home and industrial use

BrightBio® Filament is a renewable polymer, fully designed and manufactured in Finland. It is ideal for replacing fossil-based materials for multipurpose 3D-printing use.

BrightBio® Filament is chemically modified, crosslinked polyester from nature's own renewable monomers and polymers, industrial side-streams and natural colourants. Colours tailorable to customer's needs with natural dyes.

### Our biomaterials' benefits in printing

- Durable and easy to print
- Combines the best qualities of PLA and PETG
- Good layer adhesion
- Good bridging performance

**For further information**  
[orders@brightplus.com](mailto:orders@brightplus.com)



Our portfolio includes products with renewable content as high as 99.5 %.



Majority of our filaments have over 50% renewable or recycled content.



We reduce the circularity gap. 40 % of our filaments contain industrial side-streams such as bio ash.

Brightplus is an innovative renewable materials manufacturing company from Finland. We specialise in design and development of new functional properties for industrial biomaterial solutions.

We cater for industries like consumer goods, cosmetics, construction and packaging.

**Read more:** [www.brightplus.com](http://www.brightplus.com)

# Technical Data

## FILAMENT SPECIFICATIONS

SIZE	Ø TOLERANCE	ROUNDNESS
1.75 mm	±0.05 mm	≥95 %
2.85 mm	±0.09 mm	≥95 %

## MATERIAL PROPERTIES

DESCRIPTION	TEST METHOD	TYPICAL VALUE
Density	ISO 1183	1.245 g/cm <sup>3</sup>
MFR 210°C/2,16 kg	ISO 1133	14.3 cm <sup>3</sup> /10min
MFR 130°C/2,16 kg	ISO 1133	37.1 g/10 min
Tensile strenght	ISO 527	66 MPa
Elastic modulus	ISO 527	3200 MPa

Values calculated on injection molded material tests

## RECOMMENDED PRINTER SET UP

Extrusion temperature	190±10°C
Melting temperature	195±10°C
Bed temperature	60°C
Printing speed	50 mm/s
Fan speed	50 %

## FILAMENTS AVAILABLE

COLOUR		ID-NUMBER	RAL ref.	DIAMETER	WEIGHT
Black		BFIL101	6022	1.75 mm/ 2.85 mm	750 g
White		BFIL102	7032	1.75 mm/ 2.85 mm	750 g
Clear		BFIL103	1014	1.75 mm/ 2.85 mm	750 g
Bio ash		BFIL110	6006	1.75 mm/ 2.85 mm	750 g
Indigo blue		BFIL111	5011	1.75 mm 2.85 mm	750 g

Filaments are distributed in vacuum-sealed bags and wound onto a custom spool that has been designed for strength, uniform dynamic performance and trouble-free dispensing. Copyright © Brightplus Oy.

