

BEND

BEND is a very flexible rubber replacing filament for 3D printing. The combination of flexibility, mechanical strength, durability and good resistance to chemicals and extreme temperatures makes it a unique filament. This BIO performance Thermoplastic Co-Polyester has a high carbon content of renewable materials resulting in less environmental impact. Finally BEND exhibits excellent UV resistance.

Material features:

- Very flexible
- Strong
- Long term heat resistant
- Good chemical resistance
- UV resistant

Filament specs.		
Size	Ø tolerance	Roundness
1,75mm	± 0,05mm	≥ 95%
Material properties		
Description	Testmethod	Typical value
Specific gravity	ISO 1183	1,14 g/cc
MFR 260°C/5 kg	ISO 1133	52 g/10 min
Tensile strength at break	ISO 527	24 Mpa
strain at break	ISO 527	530%
Tensile modulus	ISO 527	95 Mpa
Impact strength - Charpy notched 23°C	ISO 179	N.B.
Printing temp.	DF	245±10°C
Melting temp.	ISO 11357	180°C
Vicat softening temp.	ISO 306	38°C
Shore hardness	ISO 868	45D

Additional info:

Recommended temperature for heated bed is ± 100°C. Various other options (also without heated bed) are possible depending on the type and size of the object to be printed.

BEND can be printed better at a lower speed, due to its flexibility.

BEND can be used on most common desktop FDM or FFF technology 3D printers.

Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly