3D

BVOH Filament

- Butenediol Vinyl Alcohol Co-polymer (BVOH) for material extrusion (ME)
- Water dissolvable support material
- Waste can be disposed with household effluent**
- Excellent layer-forming, emulsifying, adhesive
- Adheres well to ABS, PLA and PET material
- Light- and UV-sensitive
- High solubility
- Main applications: Support material for filaments, printing projects with overhangs or complex objects

Filament Specifications

Size	Ø tolerance	Length
1.75mm	± 0.07mm	182 m
2.85mm	± 0.07mm	69 m

Material Properties

Description	Test method	Typical value
Density	ISO 1183	1.14 g/cm
Melt flow rate (210°C, 21.2N)	ISO 1133	7.5 g/10min
Melt temperature		176°C
Glass transition temperature		68°C
Viscat softening temperature	ISO 306	92°C
Flexural strength	ISO 178	71 MPa
Flexural modulus	ISO 178	2900 Mpa
Impact strength - Charpy method 23°C	ISO 179	21 kJ/m2
Tensile strength	ISO 527	45 Mpa
Tensile elongation	ISO 527	9.0%

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A Group Company of MITSUBISHI CHEMICAL

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Recommended printer set up

Extrusion temperature	200-220°C
Bed temperature	60°C
Printing speed	30 mm/s

Filaments Available

Colour	Part Number		PANTONE® ref.*	Diameter	Weight
Natural White	55902		N/A	2.85 mm	500 g
Natural White	55901		N/A	1.75 mm	500 g

**>20 times weight of water to this material required for disposal (i.e. >20cc water to 1g BVOH) with a maximum of 2kg of BVOH per day. When more BVOH is to be used per day, professional organic effluent treatment will be required.

* Closest PANTONE® colour reference

Verbatim filament is manufactured from high quality materials to extremely rigid standards. The filaments are manufactured from the highest quality materials and produced to extremely tight tolerances to ensure consistent feed and stable printing. The filaments are distributed in vacuum-sealed bags with desiccant, and wound onto a custom spool that has been designed for strength, uniform dynamic performance and trouble-free dispensing.

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