

PVA filament is quickly soluble in water, bonds well to plastics and prints easy. Therefore it is an excellent supporting material for dual extruder 3D printing. This polyvinyl alcohol-based filament is nontoxic, and biodegradable once dissolved in water. For applications other than supporting material PVA is also available in colours and has a high tensile strength.

### Material features:

- Excellent water solubility
- Easy to print at low temperature
- Good bonding to various plastics such as PLA
- Biodegradable when dissolved in water
- Limited smell



### Colours:

PVA is available in its natural colour. For specific applications PVA is available in colours on request

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### Packaging:

PVA is available in nearly any type of packaging and labelling, but will be supplied always in a vacuum bag, due to the moisture sensitivity of PVA. Ask our team to help you customizing your product.

### Filament specs.

Size	Ø tolerance	Roundness
1,75mm	± 0,05mm	≥ 95%
2,85mm	± 0,10mm	≥ 95%

### Material properties

Description	Testmethod	Typical value
Specific gravity	ASTM D1505	1,23 g/cc
MFI 190°C/21,6kg	ISO 1133	14-20 gr/10 min
Tensile Strength at Yield	ISO 527	78 Mpa
Elongation-Strain at Break	ISO 527	9,9%
Tensile (E) modulus	ISO 527	3860 Mpa
Impact strength - Charpy method 23°C Notched	ISO 179	1,6 kJ/m2
Printing temp.	DF	205±10°C
Melting temp.	-	163°C
Vicat softening temp.	ISO 306	60,2°C

### Additional info:

Recommended temperature for heated bed is ± 35-60°C. Do not exceed a printing temperature of 225°C, because then PVA crystallizes quickly and it will no longer flow and/or dissolve in water. .

The speed at which the product dissolves in water is dependent on the volume of the printed object and the temperature of the water. PVA dissolves in cold water. Higher water temperature (up to 70°C is no problem) will accelerate the dissolution.

PVA can be used on all 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