



3D Printing Solutions

PVA

PVA 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 non toxic and biodegradable once dissolved in water. For applications other then supporting material PVA @df is also available in colours and has a high tensile strength.

Features:

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

Colours:

PVA is available in Its natural colour.



Packaging:

PVA is supplied in plastic bag and custom box. Deliverable in different sizes:

- 750 gram
- 2,3 kg
- 4,5 kg
- 8,5 kg

Filament specs.		
Size	Øtolerance	Roundness
2,85 mm	± 0,10 mm	>95%

Material properties		
Description	Test method	Typical value
Specific gravity	ASTM D1505	1,23 g/cc
MFR 190°C/21,6kg	-	14-20 g/10 min
Tensile strength	ISO 527	78 Mpa
Strain at break	ISO 527	9,90%
Tensile modulusn(1mm/min)	ISO 527	3860 Mpa
Impact strength Charpy method 23°C	ISO 179	Notched 1,6 KJ/m ²

Additional info:

Recommended temperature for heated bed is $\pm 35-60^{\circ}\text{C}$. 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 ($15-25^{\circ}\text{C}$) and away from UV light. This enhances the shelf life significantly.

Size and pricing

All prices shown are exclusive of VAT.

Pricing	
Size	Price excl. BTW
750 gram	€ 51,95
2,3 kg	€ 205,95
4,5 kg	€ 370,50
8,5 kg	€ 637,50