

# Polyvinyl alcohol (PVA)

#### General

PVA is a polyvinyl alcohol that dissolves easily in cold water. When dissolved in water, it is biodegradable and can therefore be disposed of in normal wastewater. It combines well with other plastics such as PLA, ABS or PETG and is therefore ideal as a support material in dual extrusion printing. Support structures detach from the printed object within 24 hours without leaving any residue.

PVA is very sensitive to moisture and should always be stored in closed bags. If bubbles appear during processing, the filament must be pre-dried.

#### advantage

- Dissolves excellently in cold water
- Biodegradable when dissolved in water
- good adhesion to PLA, ABS and PETG

#### disadvantage

- sensitive to moisture
- more difficult to process than other soluble
- support materials
- short residence times until decomposition

### **Processing data**

Printing	temperature
190-220	°C
Heated I	ped temperature
not abso	lutely necessary, recommended 60-90°C

## **Technical specifications**

-	%
60	g/10min
28.5	MPa
-	%
-	%
-	MPa
-	°C
-	°C
-	W/(K*m)
HB	
1.258	g/cm <sup>3</sup>
	- 60 28.5 - - - - - HB 1.258

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