

PrintaMent PVA-M

DATASHEET

Description

PVA-M filament is our preferred, cold water soluble, supporting material for dual extruder 3D printing. The modification on the raw material results in a filament that is much more thermally stable than a regular PVA. It also bonds well to PLA, ABS and PET-G, which enlarges the application field significantly. This polyvinyl alcohol-based filament is non toxic and biodegradable once dissolved in water. Easy printing, much less failures and easy removability makes this the supporting material you should try.

Features

- Improved formula with enhanced stability in printing
- Thermally much more stable than a regular PVA
- Good bonding to PLA, PET-G, ABS
- Biodegradable when dissolved in water

Colors

Natural

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-M dissolves in cold water. Higher water temperature (up to 70°C is no

problem) will accelerate the dissolution.
Storage: Cool and dry!

Technical Data

Dimensions

Size	Tolerance	Roundness
$\varnothing 1,75\text{mm}$	$\pm 0,05\text{mm}$	>95%
$\varnothing 2,85\text{mm}$	$\pm 0,10\text{mm}$	>95%

Physical Properties

Description	Typical Value
Specific gravity	1,22 g/cc
MFR 220°C	2,3 g/10 min
Tensile strength	-
Strain at break	-
Tensile modulus (1mm/min)	3500 Mpa
Impact strength Charpy method 23°C	Notched 1,7 KJ/m ²

Thermal Properties

Size	Roundness
Printing temp.	180-205 $^{\circ}\text{C}$
Melting temp.	163 $^{\circ}\text{C}$
vicat softening temp.	60 $^{\circ}\text{C}$