

MakerPoint PVA

MakerPoint PVA is quickly soluble in water, bonds well to plastics and prints easy. It is an excellent support material when used in a dual extrusion 3D printer. Polyvinyl alcohol-based filament is nontoxic and once dissolved in water it is fully biodegradable. PVA is also usable for applications other than supporting material, it is available in various colors 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

Dimensions

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

Colors

MakerPoint PVA is available in its natural color.

3D-printing

Description	Typical value
Printing technology	FFF
Printing temp.	180-205°C
Heated bed temp.	35-60°C
Cooling fan	100%
Flow Rate	100%

Physical properties

Description	Test method	Typical value
Density	ASTM D1505	1,23 g/cc
MFR 190 °C/21,6kg	-	14-20g/10 min
Tensile strength	ISO 527	78 MPa
Strain at break	ISO 527	9,90%
Tensile modulus	ISO 527	3860 MPa
Impact strength Charpy method	ISO 179	Notched No break 1,6 kJ/m ²

Thermal properties

Description	Test method	Typical value
Melting temp.	ISO 11357	180°C
Vicat softening temp	ISO 306	60,2 °C

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The data correspond to our knowledge and experience at the time of publication. They do not on their own represent a sufficient basis for any part design, neither do they provide any agreement about or guarantee the specific properties of a product or part or the suitability of a product or part for a specific application. It is the responsibility of the producer or customer of a part to check its properties as well as its suitability for a particular purpose. This also applies regarding the consideration of possible intellectual property rights as well as laws and regulations. The data are subject to change without notice as part of MakerPoints continuous development and improvement processes.



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