

WATER SOLUBLE SUPPORT MATERIAL

PVA Support Filament

1.75 mm · 0.5 kg spool · ± 0.05 mm tolerance

Water soluble support material for PLA. Supports dissolve in water, making complex overhangs and internal cavities practical to print.

- ✓ Dissolves in water
- ✓ Pairs with PLA
- ✓ Keep sealed and dry
- ✓ 0.5 kg spool

Recommended Print Settings

Nozzle temperature	210–230 °C 220 °C recommended
Bed temperature	25–60 °C 40 °C recommended
Print speed	40–90 mm/s 60 mm/s recommended
Support material	Use as support for PLA (dissolves in water)

- i** PVA absorbs moisture quickly. Keep the spool sealed with desiccant between prints.

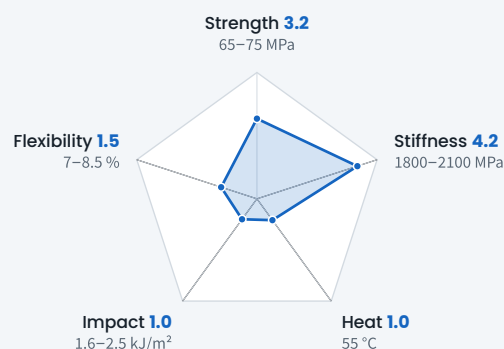
Filament Specifications

Material	Polyvinyl alcohol (PVA)
Diameter	1.75 mm
Diameter tolerance	± 0.05 mm
Net filament weight	0.5 kg

Spool & Packaging

Empty spool weight	150 g
Spool with filament	0.65 kg
Spool outer diameter	180 mm
Hub diameter	55 mm
Spool width	49 mm
Shipping weight	0.8 kg
Box dimensions	210 × 210 × 75 mm

Property Profile



Scores from 1 to 5 relative to the OzFDM filament range, based on the typical values in this sheet (stiffness and impact on a log scale).

Storage & Handling

Drying
50 °C for a minimum of 3 hours in a filament dryer or food dehydrator.

Storage
Airtight bag or container with desiccant in a cool, dark and dry area to prevent moisture absorption. For optimal long term storage we recommend drying the filament prior to sealing the filament spool in a vacuum bag with desiccant.

Mechanical Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Tensile strength	ISO 527	65–75 MPa
Elongation at break	ISO 527	7–8.5 %
Tensile modulus	ISO 527	1800–2100 MPa
Flexural strength	ISO 178	88–92.5 MPa
Impact strength	ISO 180	1.6–2.5 kJ/m ²

Physical Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Density	ISO 1183	1.25–1.26 g/cm ³
Melt flow rate (190 °C, 2.16 kg)	ISO 1133	4–8 g/10min
Moisture absorption (23 °C, 24 h)	ISO 62	10–15 %
Saponification degree	ISO 6293	74–76 %
Solubility (40 µm flakes, 20 °C water)	–	97 s

Thermal Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Heat deflection temperature (0.455 MPa)	ISO 75	55 °C

Available Colours 1



Natural

Swatches are indicative only. Colours vary between screens and with print settings.

NOTES

Values shown are typical results measured on test specimens and are provided for guidance only. They are not guaranteed specifications and should not be used as design limits. Printed part properties vary with printer, settings, print orientation and part geometry. Test your parts for suitability before use in critical applications.