PRODUCT DATASHEET



PVA (POLYVINYL ALCOHOL) FILAMENT

END USE

PVA is an abbreviation for polyvinyl alcohol, a water-soluble material. It is often used with multi-extruder FDM 3D printers as a support material. The biggest advantage of PVA filament is its ability to dissolve in water. This means there are no ugly marks left on the print after the support material is removed.

PHYSICAL PROPERTIES

Product Code(s) PVA-NAT-500

Colour(s) Water Soluble Support Filament

Specific Gravity (g/cm3) 1.15 (Test Standard - ASTM D792)

Shrinkage (%) 0.30 - 0.50 - flow (3.18 mm) (Test Standard - ASTM D955)

Tensile Modulus (MPa) 4480 (Test Standard - ASTM D638)

Tensile Yield Strength (MPa) 75.8 (Test Standard - ASTM D638)

Tensile Elongation (%) 3.0 - 4.0 (Test Standard - ASTM D638)

Flexural Modulus (MPa) 3790 (Test Standard - ASTM D790)

Flexural Strength (MPa) 110 (Test Standard - ASTM D790)

Cantilever Beam Notched Impact

Strength (3.18mm) (J/m)

Without Notched Cantilever Beam

Impact Strength (3.18mm) (J/m)

610 (Test Standard - ASTM D4812)

91 (Test Standard - ASTM D256)

APPLICATION

Water soluble support material.

PRINTER SETTINGS

Spool Net Weight: 0.5kg Diameter: 1.75mm ± 0.05mm Print Temperature: 190-220°C Print Speed: 30-45mm/s Bed Temperature: 100°C Move Speed: 20-40mm/s

Monocure 3D Pty Ltd Unit 16, 364 Park Road Regents Park,NSW 2144, AUSTRALIA All product, product properties, product specifications and data are subjectato change without notice to improve reliability, function or design or otherwise.

Monocure 3D Pty Ltd, its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Monocure"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product. See website for full disclaimer, (www.monocure3d/technicaldatasheet/disclaimer)