

PVA · Technical Data Sheet

General Features

| | | |
|---|--|--|
| Chemical Name Polyvinyl Alcohol | Benefits • Water-soluble support | Main Applications Concept modeling, Educational projects, Design projects, Water-soluble support structures to achieve complex geometries. |
|---|--|--|

Filament Characteristics

| | | |
|-------------------------|----------|----------|
| Diameter | Ø 1.75mm | Ø 2.85mm |
| Meters per spool | 114.577m | 43.200m |
| Weight per meter | 3.05g | 8.10g |

Material Properties

| | | Typical value |
|--|-------------------|---------------|
| Melt flow index (190°C, 21.6kg) | - | 14-20 |
| Melting temperature °C | °C | 170 |
| Glass transition temperature °C | °C | 60 |
| Bulk density (g/cm³) | g/cm ³ | 0.6-0.9 |
| Volatiles content (wt.%) | % | <1 |
| Methanol content (wt.%) | % | <1 |

Recommended printer settings

| | |
|------------------------------|-----------------|
| Print temperature | 195-210°C |
| Print bed temperature | 50° First/Later |
| Cooling fans | On |
| Closed environment | Not required |
| Adhesive | Required |

Available Colours

| Colour | Pantone Code |
|---------|--------------|
| Natural | -- |

Disclaimer:

This TDS, based on current knowledge and experience, contains a general summary of hazards and is consistent with the information provided by the supplier. No liability can be assumed for the accuracy and completeness of this information. The information in this TDS applies for this specific material only. It therefore does not apply for its usage in combination with other materials or ways of processing. It is user's responsibility to read and understand this information and incorporate it into individual safety programs, according to all legal and regulatory applicable procedures. Smart International gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the user shall determine the quality and suitability of the product. Smart International expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.

