

Features

- Good tensile strength and surface quality
- Easy to work with at high print speed
- User-friendly for both home and office environments
- Due to the low shrinkage factor, PLA will not deform after cooling
- Minimal thermal tension
- Minimal deformation
- Acetone resistant

RS PRO 3D Printing Materials

RS Stock No.: 125-4337



RS PRO Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

This PLA (polylactic acid) 3D Printer Filament from our high-quality own brand RS PRO is the most popular 3D printing filament material and it is the best material for getting started with your 3D printer.

General Specifications

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|---------------------|--|
| Printing Technology | FDM |
| Printing Material | PLA |
| Machine Specific | No |
| Colour | White |
| For Use With | Common Desktop 3D Printers |
| Material Type | PLA |
| Application | Household tools, Educational projects, Show objects, Prototyping, Architectural models |

Mechanical Specifications

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|---------------------|-------------------------------|
| Diameter | 1.75mm |
| Weight | 1kg |
| Specific gravity | 1,24 g/cc |
| MFI | 6,0 g/10 min |
| Tensile strength | 110 MPa (MD) / 145 MPa (TD) |
| Elongation at break | 160% (MD) / 100% (TD) |
| Tensile Modulus | 3310 MPa (MD) / 3860 MPa (TD) |
| Impact strength | 7,5 KJ/m ² |
| Tolerance | ± 0.05mm |
| Roundness | ≥ 95% |

Operation Environment Specifications

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|-----------------------------|---------------|
| Printing Temperature | 180 °C -210°C |
| Melting Temperature | 210°C ± 10 °C |
| Melting Point | 145 °C -160°C |
| Vicat Softening Temperature | ± 60°C |
| Heat Deflection Temperature | 56°C |
| Storage Temperature | 15 °C -25°C |
| Storage Temperature | 15-25°C |

Approvals

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|---------------------------|---|
| Compliance/Certifications | ASTM D1505, ASTM D882,ASTM D3418,ISO 306, 2011/65/EU and 2015/863 |
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