

## 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 1.75mm Natural PLA 3D Printer Filament, 1kg

RS Stock No.:832-0210



RS 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

<b>Printing Technology</b>	FDM
<b>Printing Material</b>	PLA
<b>Machine Specific</b>	No
<b>Colour</b>	Natural
<b>For Use With</b>	Common Desktop 3D Printers
<b>Material Type</b>	PLA
<b>Application</b>	Household tools, Educational projects, Show objects, Prototyping, Architectural models

## Mechanical Specifications

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

## Operation Environment Specifications

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

## Approvals

<b>Compliance/Certifications</b>	ASTM D1505, ASTM D882,ASTM D3418,ISO 306, 2011/65/EU and 2015/863
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