

## Features

- Good tensile strength and surface quality
- User – friendly for both home and office environments
- Due to the low shrinkage, PLA will not deform after cooling
- Minimal thermal tension
- Minimal deformation

## RS PRO 3D Printing Materials

RS Stock No.: 0360155



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 product is used for: Domestic tools, educational projects, display objects, prototypes architectural models.*

## General Specifications

|                     |                                  |
|---------------------|----------------------------------|
| Printing Technology | FDM                              |
| Printing Material   | PLA                              |
| Machine Specific    | No                               |
| Colour              | White                            |
| For Use With        | Common Desktop 3D Printers       |
| Material Type       | PLA                              |
| Print Speed         | >250 mm/s for 0.2mm layer height |

## Mechanical Specifications

|                           |                                         |
|---------------------------|-----------------------------------------|
| Diameter                  | 1.75 mm                                 |
| Weight                    | 500 g                                   |
| Specific gravity          | 1,24 g/cc                               |
| MFI                       | 6 g/10 min                              |
| Tensile Strength          | 45 Mpa                                  |
| Tensile Modulus           | 3500 Mpa                                |
| Impact Strength           | < 5 KJ/m <sup>2</sup>                   |
| Tolerance                 | ± 0.05mm                                |
| Roundness                 | ≥ 95%                                   |
| Spool Size                | 20cm (D) x 47mm (h) & Hub diameter 52mm |
| Ovalidity Tolerance (Max) | ± 5%                                    |

**Operation Environment Specifications**

|                                     |                |
|-------------------------------------|----------------|
| <b>Printing Temperature</b>         | 190 – 230 °C   |
| <b>Melting Temperature</b>          | 155 °C ± 10 °C |
| <b>Glass Transition Temperature</b> | 55 - 60 °C     |
| <b>Storage Temperature</b>          | 15-25°C        |

**Approvals**

|                                  |                               |
|----------------------------------|-------------------------------|
| <b>Compliance/Certifications</b> | IEC / CE / CSA                |
| <b>Declarations</b>              | MFR Declaration of Conformity |