

## Features

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

## 3D Printer Filament, PLA Silk RS PRO 1.75mm Scarlet 1 Kg

RS Stock No.: 0430143



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

### General Specifications

- *This product is used for: Products requiring a high level of detail and precision, jewellery creations, decorative pieces, architectural models.*

### General Specifications

|                     |                                           |
|---------------------|-------------------------------------------|
| Printing Technology | FDM                                       |
| Printing Material   | PLA                                       |
| Machine Specific    | No                                        |
| Colour              | Scarlet                                   |
| For Use With        | Common Desktop 3D Printers                |
| Material Type       | PLA                                       |
| Print Speed         | 80 – 120 mm/s for 0.2mm layer height      |
| Bed Prep            | Glass/ Glue, BuildTak, Bluetape, Garolite |

### Mechanical Specifications

|                         |                                         |
|-------------------------|-----------------------------------------|
| Diameter                | 1.75 mm                                 |
| Weight                  | 1 Kg                                    |
| Specific gravity        | 1,24 g/cc                               |
| MFI                     | 6,0 g/10 min                            |
| Tensile strength        | 45 MPa                                  |
| Tensile Modulus         | 3500 Mpa                                |
| Impact strength         | < 5 KJ/m <sup>2</sup>                   |
| Tolerance               | ± 0.05mm                                |
| Roundness               | ≥ 95%                                   |
| Strain at yield         | 5% (max)                                |
| Spool weight            | 224 gr                                  |
| Spool size              | 20cm (D) x 68mm (h) & Hub diameter 52mm |
| Ovality Tolerance (Max) | ± 5%                                    |

**Operation Environment Specifications**

|                                     |               |
|-------------------------------------|---------------|
| <b>Printing Temperature</b>         | 190-230°C     |
| <b>Melting Temperature</b>          | 155°C ± 10 °C |
| <b>Melting Point</b>                | 145-160°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 |