

## Technical data sheet PLA

Filament: [PLA](#).

Brand name: [filalab](#) [www.filalab.lt](http://www.filalab.lt)

Usage: [3D filament for FDM 3D printers](#).

Manufacturer: [UAB filalab, Vilnius, Lithuania](#).

Printing recommendations:

Bed temperature: [60°C ± 10°C](#)

Extruder temperature: [200°C ± 10°C](#)

Diameter tolerance: [1.75 mm ± 0.03 mm](#)

Print speed: [100 - 200 mm/s](#)

Fan speed: [100 %](#)



## Material Properties

### Physical properties:

| Physical properties             | Value                     | Method   |
|---------------------------------|---------------------------|----------|
| Melt flow rate (190 °C/2.16 kg) | 2.0 - 4.0 [g/10 min]      | ISO 1133 |
| Melting temperature             | 155 - 165 °C              | ISO 1133 |
| Density                         | 1.25 [g/cm <sup>3</sup> ] | ISO 1183 |

### Mechanical properties:

| Physical properties          | Value                     | Method         |
|------------------------------|---------------------------|----------------|
| Modulus of elasticity        | 3,000 MPa                 | ISO 527        |
| Tensile strength             | 55 MPa                    | ISO 527        |
| Tensile stress at break      | 20.9 MPa                  | ISO 527        |
| Flexural modulus             | 3,075 [MPa]               | ISO 178        |
| Impact Strength (Charpy), RT | 64.5 [kJ/m <sup>2</sup> ] | ISO 179-1/1 eU |

### Note:

These results should be regarded as guide values only. Values depend on print settings, print atmosphere conditions.

3D printed “dog bone” mechanical properties will be added soon.