

## Poly lactide Silk (PLA Silk)

### General

Purefil PLA Silk is a PLA-based filament to which appropriate additives are added to achieve a metallic sheen. The printed parts have exceptional aesthetic properties.

PLA Silk is as easy to process as standard PLA and has slightly better mechanical properties.

This unique filament is particularly suitable for applications with high demands on the appearance of the printed parts.

Due to the additives included, PLA Silk is no longer 100% biodegradable and cannot be composted.

This filament meets the compositional requirements of European Regulation No. 10/2011 on plastic materials intended for food contact.

#### advantageous

- Fantastically beautiful optics
- slightly better mechanical properties than standard PLA
- Beautiful shine effect
- Printing directly on glass plate
- easily printable
- Doesn't fade

#### disadvantageous

- Can become soft again from 60 degrees
- Not biodegradable due to additives

### Processing data

#### Printing temperature

190-210 °C

#### Heated bed temperature

Not required, 50°C recommended

#### Drying temperature

60°C

#### Drying time

4h

### Technical specifications

Shrinkage	-	%
MFR (ASTM D1238)	6.6	g/10min
Yield stress (ASTM D882)	58.9	MPa
Elongation at yield (ASTM D882)	5.8	%
Elongation at break (ASTM D882)	9.4	%
Tensile modulus (ASTM D882)	3440	MPa
Heat deflection temperature	62	°C
0.45 MPa (ASTM E2092)		
Vicat softening temperature A	-	°C
Thermal conductivity 23°C	-	W/(K*m)
Flammability	HB	
Density (ASTM D792)	1.24	g/cm <sup>3</sup>