

Silk PLA

STANDARD PLASTICS FOR FDM 3D PRINTING



MATERIAL NAME

Silk PLA

COLOR

Multi Color

PROCESS

FDM

PRODUCT DESCRIPTION

PLA Silk+ is an FDM material that optimizes the appearance gloss and printing performance based on PLA. It has silk luster, rich colors and good printability. It is suitable for appearance display, model figures, educational samples and light-load decorative parts.

TYPICAL APPLICATIONS

- Low-cost rapid prototyping
- Appearance display
- Functional prototype testing
- Assembly testing

PRODUCT SAFETY

Thermoplastic printed parts should be handled according to normal workshop safety practices. Avoid high heat, open flames, and inhalation of fumes generated during post-processing or overheating.

PRODUCT DELIVERY & WAREHOUSING

- STORAGE**
Store parts in a dry, cool, and clean environment away from direct sunlight and high heat. Keep the material sealed before processing.
- TRANSPORTATION**
Pack parts securely to prevent warping, scratching, and impact. Protect from moisture and temperature swings during transit.

PROPERTIES OF PRINTED MATERIAL

Properties	Test Method	Value
Density (g/cm3)	ISO 1183	1.27 g/cm3
Water Absorption (%)	ISO 62	0.4%
Tensile strength (MPa)	ISO 527	XY: 33±4 Z: 25±4 MPa
Tensile modulus (MPa)	ISO 527	XY: 2130±210 Z: 1850±140 MPa
Elongation at break	ISO 527	XY: 2.8±0.6 Z: 1.5±0.2%
Flexural strength (MPa)	ISO 178	XY: 75±4 Z: 30±5 MPa
Flexural modulus (MPa)	ISO 178	XY: 2460±150 Z: 2150±160 MPa
Heat deflection temperature @ 0.45 MPa (deg C)	ISO 75	HDT @ 0.45 MPa: 60 deg C
Heat deflection temperature @ 1.8 MPa (deg C)	ISO 75	HDT @ 1.8 MPa: 56 deg C
Impact strength notched	ISO 179	XY: 10.3±0.5 KJ/m²; ISO 179 (Charpy)

Tips: Want to explore a wider range of materials? Check out <https://www.unionfab.com/materials>