TECHNICAL DATA SHEET
FILAMENT | PLA SILK ULTRA
V 1.0 | 28/03/2024

PLA SILK ULTRA is a modified 3D printing filament that is based on PLA (polylactic acid) and enhanced with other polymers and modifiers, which gives 3D printed parts a surface finish with an extremely high gloss and high level of light dispersion and reflection.

PLA SILK ULTRA filament comes in various deep brilliant colors and allows you to 3D print parts with almost no visible layers.

PRODUCT DESCRIPTION

Property	Value
Diameter	1.75 mm ± 0.05 mm
Chemical name	-
Fiber content	-
Odor	-

RECOMMANDED PRINTING PROPERTIES

Property	Value
Extruder temperature	± 215 - 245°C
Plate temperature	-
Ventilation	-
Printing speed	-
Extrusion multiplier	-
Retractation distance	-
Retraction speed	-
Storage	-

TECHNICAL DATA SHEET
FILAMENT | PLA SILK ULTRA
V 1.0 | 28/03/2024

PHYSICAL PROPERTIES

Property	Testing Method	Unit	Value
Specific gravity	ISO 1183	g/cc	1.24
Density	-	-	-
Hardness	-	-	-
Moisture content	-	-	-
Moisture absorption	-	-	-
Water absorption	-	-	-
Solubility	-	-	-
VICAT softening temperature	ISO 306	° C	± 58
Glass transition temperature			
Melting temperature			
Melt flow rate	ISO 1133 (210°C / 2,16kg)	g/10min	8,2
Heat deflection temperature	-	-	-
Coefficient of thermal Expansion	-	-	-
Continuous service temperature	-	-	-
Maximum (short term) use temperature	-	-	-
Flammability	-	-	-
Insulation resistance	-	-	-
Surface resistance	-	-	-
Abrasion resistance	-	-	-

TECHNICAL DATA SHEET
FILAMENT | PLA SILK ULTRA
V 1.0 | 28/03/2024

MECHANICAL PROPERTIES

Property	Testing Method	Unit	Value
Young's modulus	ISO 527	Mpa	3200
Tensile strength	ISO 527 at Yield	Mpa	71
Tensile elongation	ISO 527 (at break)	%	3,6
Bending modulus	-	-	-
Bending strength	-	-	-
Izod Impact, notched	-	-	-
Izod Impact strength, unnotched	-	-	-
Charpy Impact strength	ISO 179 1eA (Charpy at 23°C(73°F))	KJ/m²	2,6
Brittleness temperature	-	-	-
Tear strength	-	-	-

OTHER PROPRIETIES

Property
HS Code 39169090
REACH compliant
RoHS certified

Disclaimer :

This information is based on our current knowledge of raw materials and the manufacturing process and refers to the above mentioned products when leaving Volumic 3D. It is solely the customer's responsability to determine if the product and information in this document are appropriate for the customer's end use. Responsability for the use, storage, handling and disposal of the products herein is that of the purchaser or end user.

VOLUMIC 3D
12bis Rue Louis GA RNERAY
06300 NICE
France

TVA: FR55452187792
EORI: FR45218779200026

Phone: +33 9 500 27 400
Email: info@volumic3d.com
Internet: www.volumic3d.com