



PLA LAYER - - KT001 NAT. Filaments

Technical Data sheet

DESCRIPTION

PLA LAYER KT 001 is a 3D Printing Filament in Loaded Polylactic Acid with good printable quality.

Loaded Polylactic Acid is a Bio polymer of vegetal origin, which is completely recyclable, very versatile and with good mechanical and elastic properties.

It has a shiny finish and characteristics that make the superimposition of layers almost unnoticeable. It is therefore **ideal for producing attractive objects** that are pleasant to the touch.

It offers excellent resistance to ultraviolet light and is therefore **not subject to colour variations**. Simple to use for printing, it is also sandable.

Differently to normal PLA, has excellent heat resistance and greater mechanical resistance

PRINTING TEMPERATURES

- Extruder temperature: 195°-210°
- Printing bed temperature: 0° - 44°

APPLICATIONS

PLA Layer KT 001 is a thermoplastic filament especially suitable 3D Printing Prototyping Technologies FFF (Fused Filament Fabrication).

Following are tests carried out to proof the features and properties of the material:

Property Test Condition	Standard	Unit	Values (50%RH)
Mechanical Properties			
Tensile Strength	ISO 527	MPa	52
Elongation Strength	ISO 527	%	> 20
Flexural Stress	ISO 178	MPa	85
IZOD Impact, notched	ISO 180/1A	kJ/m2	22
Thermal Properties			
H.D.T. Method A (1,80 MPa)	ISO 75	°C	65
Other Properties			
Density	ISO 1183	g/cc	1,25
Fire Resistance (3,2 mm)	UL 94		HB
Processing			
Melt Temperature Range		°C	200 - 230

SUPPLY FORM

PLA LAYER KT 001 is supplied as Filaments. It has to be kept in its original packaging. Avoid direct exposure to sunlight.

Olivetti S.p.A.

Società con unico azionista Gruppo Telecom Italia – Direzione e coordinamento di Telecom Italia S.p.A.

Sede Legale: Via Jervis, 77 – 10015 Ivrea (TO)

Cod. Fisc. / P. IVA e iscriz. Al Reg. delle Imp. Di Torino: 02298700010 – REA si Torino 547040 – Cap. Soc. 10.000.000 i.v.



PROCESSING

PLA LAYER KT 001 Filaments is particularly aimed to be used with FDM technology printers, as the Olivetti S2 FDM printer.

Crystallization gives this material added heat resistance. To increase crystallization, 3D printed parts must be soaked in hot water or an oven at 65°C-80°C for 5-7 minutes.
aser or end user.

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