



## PLA RENEGADE Technical Data sheet

### DESCRIPTION

PLA Renegade is a 3D Printing Filament in Loaded Polylactic Acid, a **top quality** Bio polymer of vegetal origin, which is completely recyclable, very versatile and with **excellent mechanical and elastic properties**.

It has a shiny finish and characteristics that make the superimposition of layers virtually unnoticeable. It is therefore **ideal for producing very 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, it has superb heat resistance and greater mechanical resistance**, comparable to ABS.

### PRINTING TEMPERATURES

- Extruder temperature: 215°-230°
- Printing bed temperature: 0° - 50°

### APPLICATIONS

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

**PLA Renegade may come in contact with food**, having been successfully tested according to Regulation 10/2011 / EU (on plastic materials and articles intended to come into contact with food).

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

Property Test Condition	Standard	Unit	Values
<b>Mechanical Properties</b>			
Tensile Strength, at break	ISO 527	MPa	60
Elongation Strength	ISO 527	%	2
Flexural Stress	ISO 178	MPa	95
IZOD Impact, notched	ISO 180/A	kJ/m <sup>2</sup>	8
<b>Thermal Properties</b>			
H.D.T. Method A (1,80 MPa)	ISO 75	°C	92
<b>Other Properties</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1,37
<b>Processing</b>			
Melt Temperature Range		°C	200 - 230

### SUPPLY FORM

PLA Renegade is supplied as Filaments with diameter of 1,75 mm, enveloped in a spool of 1 Kg. It's available in colour: Natural.

**Olivetti S.p.A.**

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

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

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It has to be kept in its original packaging. Avoid direct exposure to sunlight.

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