

Description

High quality PLA manufactured in Spain. None of our filaments includes recycled or reused material; it is completely stabilized and has a tolerance in diameter of 0.05 mm.

During printing Eolas Prints PLA does not produce warping and has an excellent resolution.

Biological origin material content greater than 99%. Suitable for the production of food packaging according to the EU Regulation No 10/2011 and EN 1343.

Material properties

Density	1,24 g/cm ³	UNE ISO 1183-1
Chemical name	Polylactic Acid	

PLA printing settings

Nozzle temperatura	210 ± 20 °C
Bed temperatura	0 - 50 °C
Cooling fan	On (100%)

Mechanical Properties

Tensile strength	45MPa	ISO 527-1
Tensile modulus	3500 MPa	ISO 527-1
Elongation at break	≤ 5 %	ISO 527-1
Charpy Impact Resistance of Notched 23°C	≤ 5 kJ/m ²	ISO 179-1eA

Thermal properties

HDT B	64°C
Vicat	84°C

Storage

Net weight	210 ± 20 °C
Gross weight	0 - 50 °C
Diameter	On (100%)
Packaging	Hygroscopic isolation, shrink-wrapping

Storage and handling

During storage, if the product is exposed to fresh air, it can become humid. The humidity it absorbs depends on the temperature, humidity and time of exposure. Therefore, it should be stored in its packaging in a cool place, and kept at temperatures below 50 °C.

No special restrictions on storage with other products.

Expiration date/Lifespan

If store correctly and in its original packaging, the product can be used up until 24 months after reception.

If the product is stored in a package that has been exposed to humidity during an extended amount of time, it could deteriorate and loose its mechanical and physical properties, even after drying.

Security

The product Eolas Prints PLA is not classified as dangerous according to the CE Regulation No 1272/2008, and therefore is not subject to special transport regulations.

This product does not melt at room temperature.

Security

Suitable for food packaging	Yes	UE 10/2011
Suitable for toys	Yes	
Suitable fot packaging	Yes	

List of colours

Naturel	Natural
White	RAL 9010
Black	RAL 9011
Dark blue	RAL 5017
Cyan	RAL 5012
Yellow	RAL 1016
Strawberry red	RAL 3018
Red	RAL 3028
Grey	RAL 9006
Light grey	RAL 9003
Orange	RAL 2004
Mint	RAL 6019
Beige	RAL 1013
Brown	RAL 8003

