



EOLAS®
P R I N T S

Let's create together



High quality 3D Printer filaments manufactured
in the heart of Cantabria, Northern Spain.

PLA

Product portfolio

3D



PLA

What is PLA?

PLA (polylactic acid) is a biodegradable plastic derived from lactic acid, which is produced from natural and renewable starch-rich food products such as corn, sugar beet, wheat, and sugar cane. Because its molecular chains resemble those of petroleum-based plastics, PLA is a suitable alternative.

PLA Characteristics

PLA filament is the most popular material for 3D printing due to its ease of printing, making it the right material to begin with if you are new to the world of additive manufacturing.

Advantages

1. Low melting temperature: This material extrudes at over 200°C which makes it suitable for any type of 3D printer.
2. Cold printing surface: It's not required to have a heated print bed to print this material, but it is recommended to utilise some kind of adhesive to help fix the first layer to the printing surface.
3. Good mechanical strength: With the exception of temperature resistance, PLA is a hard and rigid material.
4. It does not shrink, therefore there is no warping.
5. No odour when printed.
6. It does not give off toxic fumes when printed.

Disadvantages

1. Low temperature resistance: This material has a glass transition temperature of only 60°C, but it starts to soften at 45-50°C, which limits its use in situations close to heat sources.
2. Hygroscopic: PLA is very sensitive to humidity, so it is recommended to store it in a dry environment.

Tips for printing with PLA

Extrusion Temperature

PLA can be extruded over a wide temperature range from 180°C to 230°C, depending on the type of additive PLA used. For darker colours, the hotend temperature should be raised slightly, between 3°C and 5°C.

Printing Surface

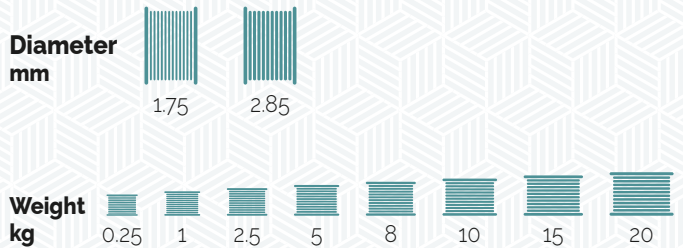
It's not required to use a heated print bed when printing with PLA, but it can help improve adhesion and avoid warping on large prints. If a heated print bed is not available, using lacquer or some other adhesive is recommended.

Cooling Fan

It is suggested to avoid using this fan on the first two coats to improve adhesion. Using this fan helps solidify the plastic as soon as it is deposited, improving final quality of thin and small printed parts.

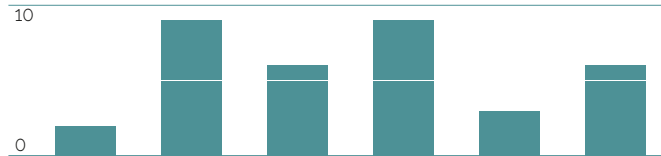
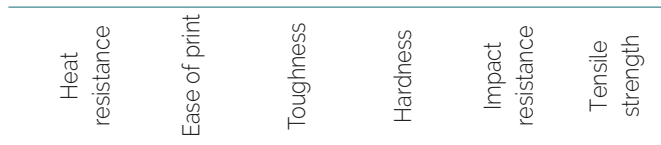


PLA Premium



Colours

	RAL		RAL	
Grey	9006		Dark Grey	7016
Natural			Yellow	1016
Pink	3015		Green	6018
Black	9005		Dark Green	6029
Blue	5002		Straw	3018
Orange	2004		Light Orange	2003
Cyan	5012		Turquoise	5018
Mint	6019		Violet	4010
Beige	9001		Baby Blue	5024
White	9010		Red	3020



- Zero Bubble
- Non-toxic
- Anti-warping
- Smooth surface
- Tolerance 0.05mm

Food contact safe
Safe for contact with food

Toy safe
Certified safe for toys

ISO certified
ISO 9001 & ISO 14001 certification

Made in Spain
Manufactured in Cantabria, Northern Spain

Specifications

Material	PLA
Diameter tolerance	± 0.05 mm
Density	1.24 g/cm ³

Printing advice

Print temperature	195 - 220°
Print speed	40 - 100 mm/s
Bed temperature	0 - 50°

Mechanical Properties

Tensile strength	51 Mpa	ISO 527-1
Young's modulus	3.7 Gpa	ISO 527-1
Tensile elongation @ break	≤ 6%	ISO 527-1
Charpy Impact Resistance of Notched 23°C	≤ 5 kJ/m ²	ISO 179-1eA

Thermal Properties

HDT B	60° Celsius
Vicat	80° Celsius

Filament Specification

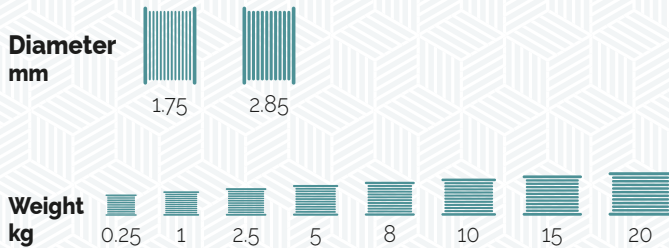
Diameter	1.75 mm & 2.85 mm
Tolerance	± 0.05

Security

This product 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.

Suitable for food contact	Yes (EU) 10/2011
Suitable for Toys	Yes
Suitable for packaging	Yes

PLA Matte



Specifications

Material	PLA
Diameter tolerance	± 0.05 mm
Density	1.24 g/cm³

Printing advice

Print temperature	195 - 220°
Print speed	40 - 100 mm/s
Bed temperature	0 - 50°

Mechanical Properties

Tensile strength	51 Mpa	ISO 527-1
Young's modulus	3.7 Gpa	ISO 527-1
Tensile elongation @ break	≤ 6%	ISO 527-1
Charpy Impact Resistance of Notched 23°C	≤ 5 kJ/m²	ISO 179-1eA

Thermal Properties

HDT B	60° Celsius
Vicat	80° Celsius

Filament Specification

Diameter	1.75 mm & 2.85 mm
Tolerance	± 0.05

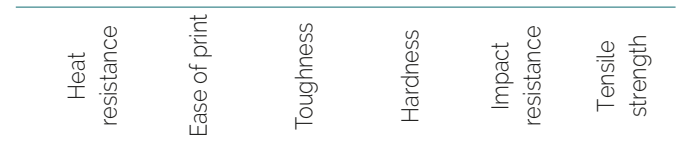
Security

This product 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.

Suitable for food contact	Yes (EU) 10/2011
Suitable for Toys	Yes
Suitable for packaging	Yes

Colours

	RAL		RAL		
Grey	9006	●	Dark Grey	7016	●
Natural		○	Yellow	1016	●
Pink	3015	●	Green	6018	●
Black	9005	●	Dark Green	6029	●
Blue	5002	●	Straw	3018	●
Orange	2004	●	Light Orange	2003	●
Cyan	5012	●	Turquoise	5018	●
Mint	6019	●	Violet	4010	●
Beige	9001	●	Baby Blue	5024	●
White	9010	●	Red	3020	●

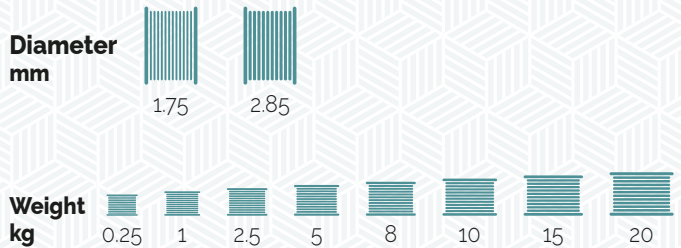


- Zero Bubble
- Non-toxic
- Anti-warping
- Smooth surface
- Tolerance 0.05mm

- Food contact safe**
Safe for contact with food
- Toy safe**
Certified safe for toys
- ISO certified**
ISO 9001 & ISO 14001 certification
- Made in Spain**
Manufactured in Cantabria, Northern Spain



PLA Ingeo 870



Colours

	RAL		RAL	
Grey	9006		Dark Grey	7016
Natural			Yellow	1016
Pink	3015		Green	6018
Black	9005		Dark Green	6029
Blue	5002		Straw	3018
Orange	2004		Light Orange	2003
Cyan	5012		Turquoise	5018
Mint	6019		Violet	4010
Beige	9001		Baby Blue	5024
White	9010		Red	3020



- Zero Bubble
- Non-toxic
- Anti-warping
- Smooth surface
- Tolerance 0.05mm

- Food contact safe
Safe for contact with food
- Toy safe
Certified safe for toys
- ISO certified
ISO 9001 & ISO 14001 certification
- Made in Spain
Manufactured in Cantabria, Northern Spain

Specifications

Material	PLA
Diameter tolerance	± 0.05 mm
Density	1.22 g/cm ³

Printing advice

Print temperature	190 - 230°
Print speed	40 - 100 mm/s
Bed temperature	0 - 70°

Mechanical Properties

	XY Axis	YX Axis	ZX Axis	
Tensile strength	40 Mpa	32 Mpa	24 Mpa	ASTM D368
Tensile modulus	2,865 Mpa	2,447 Mpa	2,447 Mpa	ASTM D368
Flexural strength	73 Mpa	49 Mpa	46 Mpa	ASTM D790
Notched Izod impact (amorphous)	160 j/m	21 j/m	109 j/m	ASTM D256
Notched Izod impact (Crystalline)	233 j/m	200 j/m	64 j/m	ASTM D256

Thermal Properties

HDT B	85° Celsius
Maximum melting temperature	165 - 180° Celsius

Filament Specification

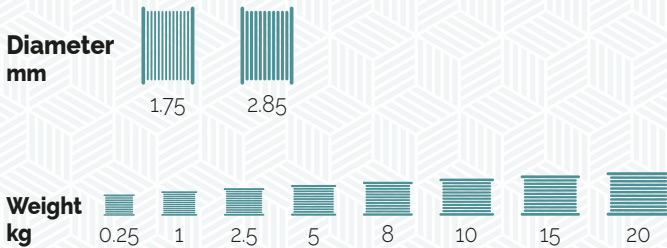
Diameter	1.75 mm & 2.85 mm
Tolerance	± 0.05

Security

This product 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.

Suitable for food contact	No (EU) 10/2011
Suitable for Toys	No
Suitable for packaging	No

PLA Wood



Specifications

Material	PLA
Diameter tolerance	± 0.10 mm
Density	1.25 g/cm³

Printing advice

Print temperature	200 - 225°
Print speed	20 - 60 mm/s
Bed temperature	0 - 50°

Mechanical Properties

Young's modulus	3 GPa	ISO 527
Maximum effort	71 N/mm²	ISO 527
Tensile elongation @ break	4% ISO	527
Traction flow rate	7 g/10 min	ISO 1133-2 (195° Celsius & 2.16 Kg)

Thermal Properties

Melting temperature	180° Celsius	ISO 11357
Glass transition temperature	61° Celsius	ISO 11357

Filament Specification

Diameter	1.75 mm & 2.85 mm
Tolerance	± 0.10

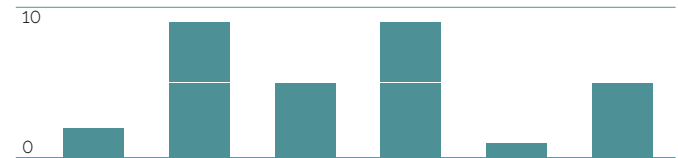
Security

This product 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.

Suitable for food contact	Yes (EU) 10/2011
Suitable for Toys	Yes
Suitable for packaging	Yes

Colours

	RAL		RAL		
Grey	9006	●	Dark Grey	7016	●
Wood		●	Yellow	1016	●
Pink	3015	●	Green	6018	●
Black	9005	●	Dark Green	6029	●
Blue	5002	●	Straw	3018	●
Orange	2004	●	Light Orange	2003	●
Cyan	5012	●	Turquoise	5018	●
Mint	6019	●	Violet	4010	●
Beige	9001	●	Baby Blue	5024	●
White	9010	●	Red	3020	●

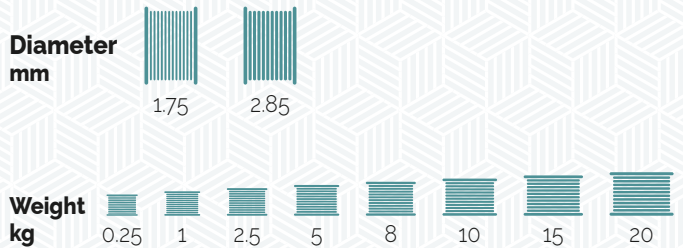


- Zero Bubble
- Non-toxic
- Anti-warping
- Smooth surface
- Tolerance 0.10mm

- Food contact safe**
Safe for contact with food
- Toy safe**
Certified safe for toys
- ISO certified**
ISO 9001 & ISO 14001 certification
- Made in Spain**
Manufactured in Cantabria, Northern Spain

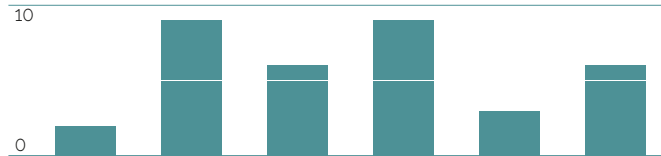
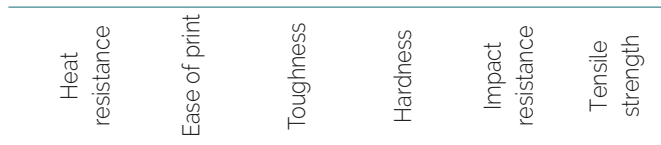


PLA Ingeo 850



Colours

	RAL		RAL	
Grey	9006	●	Dark Grey	7016 ●
Natural		○	Yellow	1016 ●
Pink	3015	●	Green	6018 ●
Black	9005	●	Dark Green	6029 ●
Blue	5002	●	Straw	3018 ●
Orange	2004	●	Light Orange	2003 ●
Cyan	5012	●	Turquoise	5018 ●
Mint	6019	●	Violet	4010 ●
Beige	9001	●	Baby Blue	5024 ●
White	9010	●	Red	3020 ●



- Zero Bubble
- Non-toxic
- Anti-warping
- Smooth surface
- Tolerance 0.05mm

Food contact safe
Safe for contact with food

Toy safe
Certified safe for toys

ISO certified
ISO 9001 & ISO 14001 certification

Made in Spain
Manufactured in Cantabria, Northern Spain

Specifications

Material	PLA
Diameter tolerance	± 0.05 mm
Density	1.24 g/cm ³

Printing advice

Print temperature	195 - 220°
Print speed	40 - 100 mm/s
Bed temperature	0 - 50°

Mechanical Properties

Tensile strength	51 Mpa	ASTM D638
Tensile modulus	2,315 Mpa	ASTM D638
Tensile elongation @ break	≤ 3,31%	ASTM D638
Impact resistance (Izod)	118 j/m	ASTM D256

Thermal Properties

HDT	80 - 90° Celsius
Peak melt temperature	165 - 180° Celsius

Filament Specification

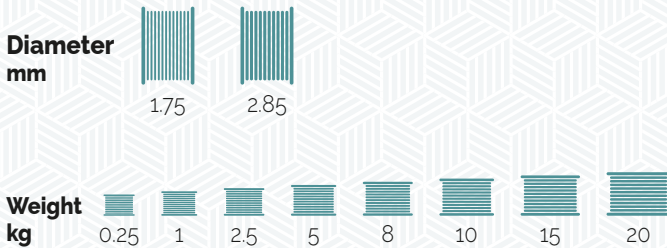
Diameter	1.75 mm & 2.85 mm
Tolerance	± 0.05

Security

This product 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

Suitable for food contact	Yes (EU) 10/2011
Suitable for Toys	Yes
Suitable for packaging	Yes

PLA Transition



Specifications

Material	PLA
Diameter tolerance	± 0.05 mm
Density	1.24 g/cm ³

Printing advice

Print temperature	195 - 220°
Print speed	40 - 100 mm/s
Bed temperature	0 - 50°

Mechanical Properties

Tensile strength	51 Mpa	ISO 527-1
Young's modulus	3.7 Gpa	ISO 527-1
Tensile elongation @ break	≤ 6%	ISO 527-1
Charpy Impact Resistance of Notched 23°C	≤ 5 kJ/m ²	ISO 179-1eA

Thermal Properties

HDT B	60° Celsius
Vicat	80° Celsius

Filament Specification

Diameter	1.75 mm & 2.85 mm
Tolerance	± 0.05

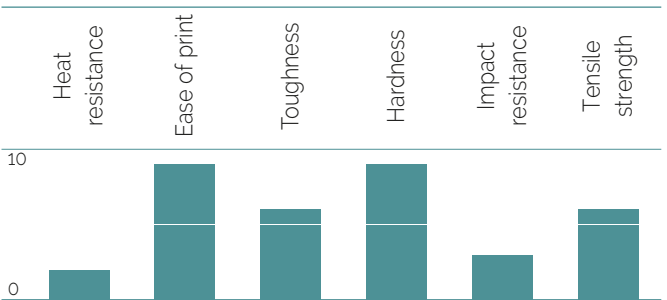
Security

This product 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.

Suitable for food contact	Yes (EU) 10/2011
Suitable for Toys	Yes
Suitable for packaging	Yes

Colours

	RAL		RAL		
Grey	9006	●	Dark Grey	7016	●
Transition	Random	○	Yellow	1016	●
Pink	3015	●	Green	6018	●
Black	9005	●	Dark Green	6029	●
Blue	5002	●	Straw	3018	●
Orange	2004	●	Light Orange	2003	●
Cyan	5012	●	Turquoise	5018	●
Mint	6019	●	Violet	4010	●
Beige	9001	●	Baby Blue	5024	●
White	9010	●	Red	3020	●



- Zero Bubble
- Non-toxic
- Anti-warping
- Smooth surface
- Tolerance 0.05mm

 Food contact safe Safe for contact with food	 Toy safe Certified safe for toys
 ISO certified ISO 9001 & ISO 14001 certification	 Made in Spain Manufactured in Cantabria, Northern Spain



TPU

What is TPU?

It is a polymer called thermoplastic polyurethane (TPU), which is a type of thermoplastic elastomer characterised by its flexibility and durability. In 3D printing it opens many possibilities as it gives the ability to manufacture flexible parts, which can be from prototypes to final printed parts or custom components such as cases for mobile phones as this material can protect the device from shocks.

TPU Characteristics

Due to the high cohesion between layers, it can be said that the manufactured parts are isotropic, which has many advantages:

Advantages

1. High impact resistance: very useful to manufacture protections for different devices such as mobile phones or tablets.
2. High resistance to wear and tear.
3. Abrasion resistant.
4. Good cut resistance.
5. Excellent chemical resistance.
6. Cold bed printing. No need to heat the printing surface to generate adhesion.
7. Resistance.

Disadvantages

1. Low temperature resistance: Despite having a wide working range, TPU softens above 50°C.
2. Very low shore hardness makes it difficult to print with FDM
3. Need to have a flexible compatible extruder. As it is a flexible material it is necessary that there are no gaps or holes through which the filament can escape.
4. Low printing speed.
5. Very hygroscopic. It is recommended to store the filament in a dry place when not in use.

Tips for printing with flexible filaments like TPU

Extrusion Temperature

TPU 3D filament can be extruded in a very wide range of temperatures from 195°C to 240°C. This will depend mainly on the extruder we have as the higher the temperature, the less force we have to push the filament.

Printing Surface

It is not necessary to have a heated surface to print with TPU, but it is advisable to use an adhesive such as lacquer. If you use a PEI surface it will be necessary to generate a barrier with some kind of adhesive such as lacquer to prevent the part from sticking permanently to the platform, as PEI and TPU are highly compatible and have a great adhesion between them.

Layer Fan

It is recommended to use it except for the first two layers to improve the adhesion to the surface. The use of this fan helps the final part quality in the thin and small parts of the parts.

Printing Speed

As it is a flexible material, it is necessary to reduce the printing speed so that the extruder does not have to deposit a large amount of material in a short time, in technical terms the volumetric speed should not be too high. Speeds of less than 30mm/s are recommended.

Extruder

The use of a direct extruder is recommended, as the flexible filament is extruded more easily. If you have a bowden extruder (either long or short) you can also print this material but it will be a bit more complicated to find the right parameters.

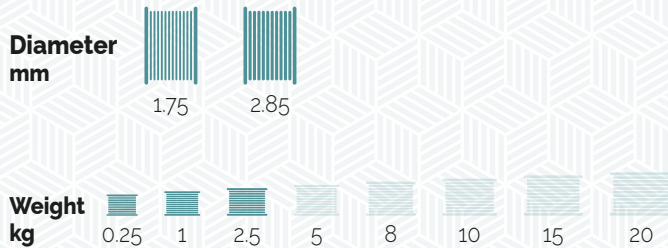
In both extruders, the space between the contact area with the pusher gear and the filament inlet to the tube or hotend (depending on the type of extruder) must not have any gaps where the filament can escape. Moreover, the filament should not be too tight in the thrust area because its diameter will be modified and the extrusion will not be correct; for this reason it is necessary to find the point where the extruder squeezes the filament as little as possible without losing thrust force.

It is also advisable in bowden extruders to replace the tube through which the filament is guided (bowden tube) by one of low friction type Capricorn, to get a better guiding of the filament to the hotend.

Retractions

Initially it is advisable to deactivate this option in the laminator and clean the piece once the printing is finished. Once you get good results without shrinkage it is time to do some tests playing with low shrinkage values until you find the balance between surface finish and zero clogging.

TPU Flexible



Specifications

Material	TPU
Diameter tolerance	± 0.08 mm
Density	1.21 g/cm³

Printing advice

Print temperature	195 - 235°
Print speed	20 - 50 mm/s
Bed temperature	0 - 50°

Mechanical Properties

Tensile strength	40 Mpa	ISO 37
Hardness	93A Shore A	ISO 868
Tear strength	150 N/m	ISO 34-1
Elongation @ break	500%	ISO 37

Filament Specification

Diameter	1.75 mm & 2.85 mm
Tolerance	± 0.08

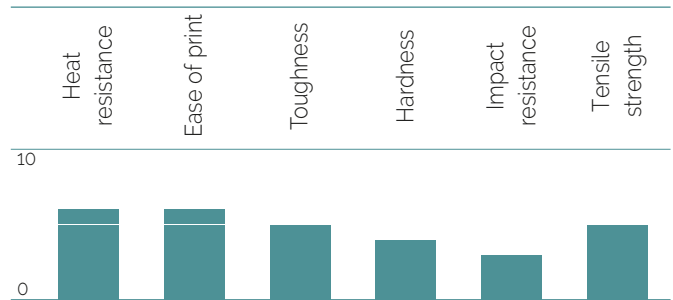
Security

This product 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.

Suitable for food contact	Yes (EU) 10/2011
Suitable for Toys	Yes
Suitable for packaging	Yes

C

	RAL		RAL	
Grey	9006	●	Dark Grey	7016 ●
Natural		○	Yellow	1016 ●
Pink	3015	●	Green	6018 ●
Black	9005	●	Dark Green	6029 ●
Blue	5002	●	Straw	3018 ●
Orange	2004	●	Light Orange	2003 ●
Cyan	5012	●	Turquoise	5018 ●
Mint	6019	●	Violet	4010 ●
Beige	9001	●	Baby Blue	5024 ●
White	9010	●	Red	3020 ●

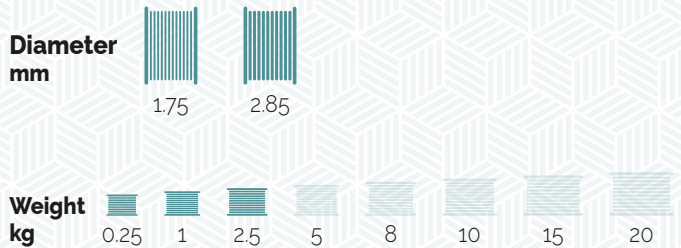


- Zero Bubble
- Non-toxic
- Anti-warping
- Smooth surface
- Tolerance 0.08mm

- Food contact safe**
Safe for contact with food
- Toy safe**
Certified safe for toys
- ISO certified**
ISO 9001 & ISO 14001 certification
- Made in Spain**
Manufactured in Cantabria, Northern Spain

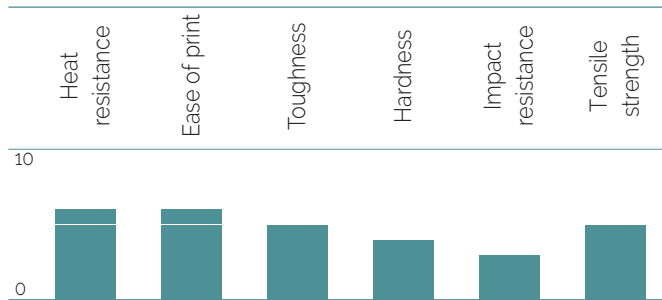


TPU Transition



Colours

	RAL		RAL		
Grey	9006	●	Dark Grey	7016	●
Transition	Random	○	Yellow	1016	●
Pink	3015	●	Green	6018	●
Black	9005	●	Dark Green	6029	●
Blue	5002	●	Straw	3018	●
Orange	2004	●	Light Orange	2003	●
Cyan	5012	●	Turquoise	5018	●
Mint	6019	●	Violet	4010	●
Beige	9001	●	Baby Blue	5024	●
White	9010	●	Red	3020	●



- Zero Bubble
- Non-toxic
- Anti-warping
- Smooth surface
- Tolerance 0.08mm

Food contact safe
Safe for contact with food

Toy safe
Certified safe for toys

ISO certified
ISO 9001 & ISO 14001 certification

Made in Spain
Manufactured in Cantabria, Northern Spain

Specifications

Material	TPU
Diameter tolerance	± 0.08 mm
Density	1.21 g/cm ³

Printing advice

Print temperature	195 - 235°
Print speed	20 - 50 mm/s
Bed temperature	0 - 50°

Mechanical Properties

Tensile strength	40 Mpa	ISO 37
Hardness	93A Shore A	ISO 868
Tear strength	150 N/m	ISO 34-1
Elongation @ break	500%	ISO 37

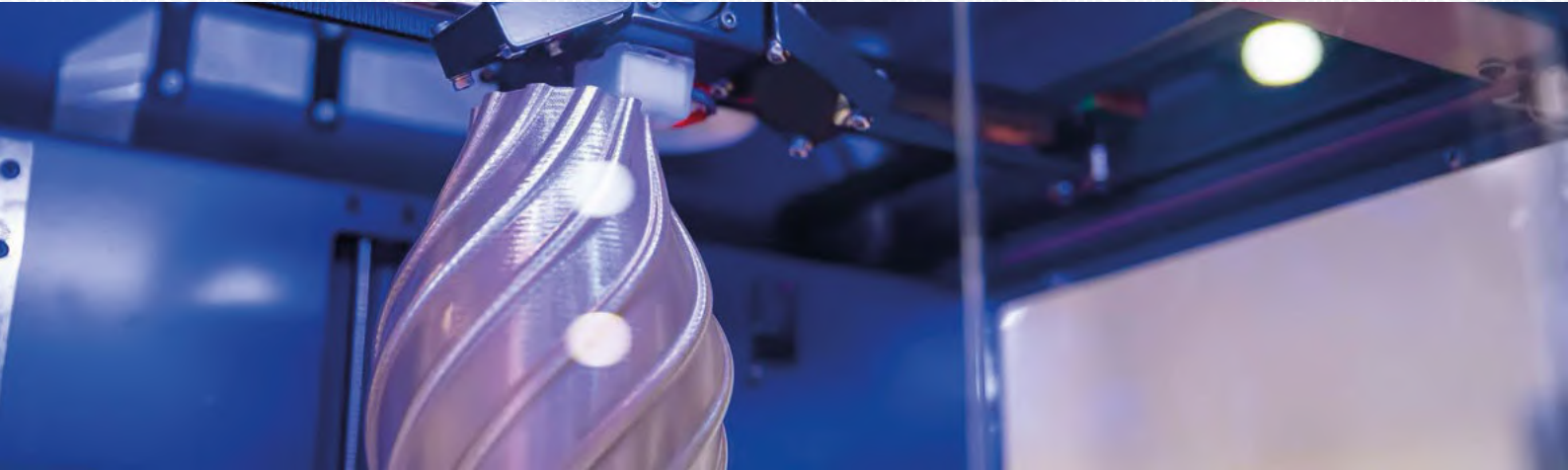
Filament Specification

Diameter	1.75 mm & 2.85 mm
Tolerance	± 0.08

Security

This product 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.

Suitable for food contact	Yes (EU) 10/2011
Suitable for Toys	Yes
Suitable for packaging	Yes



PETG

What is PETG?

PETG is the variation of the popularly known PET (polyethylene terephthalate) and G stands for glycol, which is used both for food packaging and for the manufacture of water bottles, as well as synthetic fibres for fabrics. This PET variant is obtained by adding glycol during the polymerisation process, which changes the chemical structure of the polymer, making it more transparent, less fragile and easier to process than PET.

PETG characteristics

The use of PETG in 3D printing is very common, as it offers many advantages. However, it has some disadvantages that need to be mentioned.

Advantages

1. Good mechanical properties: It is a material with high impact resistance, high durability and its temperature resistance is above 80°C, which is when the material starts to deform.
2. Approval for food use and ability to be sterilised. FDA certification (US agency responsible for the regulation of food, drugs and cosmetics).
3. Chemical resistance: being a very stable material, PETG is chemically resistant to both acid and base attack.
4. Transparency: PETG without dyes (natural) allows 90% of light to pass through, making it the ideal material for making translucent or transparent parts.
5. It is recyclable.
6. It does not produce odour when printed.

Disadvantages

1. Finding the "sweet spot" of the filament is the biggest drawback of this material, obtaining the correct printing parameters.
2. Need of hot bed for proper adhesion.
3. Loss of colour due to long term exposure to the sun. UV rays can generate a discolouration of the piece and make it more brittle. To solve this problem we have a PETG that is resistant to this discolouration.

Tips for printing with PETG

Extrusion Temperature

This material needs a temperature between 220°C and 245°C so it can be printed with any type of hotend, including those with a teflon tube inside, as long as the extrusion temperature is not higher than 235°C (PTFE degradation temperature). However, if this material is going to be printed regularly, it would be advisable to install an allmetal hotend in the 3D printer.

First Layer

To achieve a good layer adhesion with this material a hot base (60°C - 90°C) is needed, but above all a very good levelling of the surface. The space between the surface and the extruder nozzle should be slightly larger than an 80g/m² foil.

The use of lacquer or a specific adhesive is recommended for proper adhesion to the glass or mirror surface. On the other hand, if a smooth PEI base is used as the printing surface, it will be necessary to create a separation barrier using glue sticks or a little lacquer, as PETG adheres very strongly to this surface. If a textured PEI base is used, this is not necessary.

Layer Fan

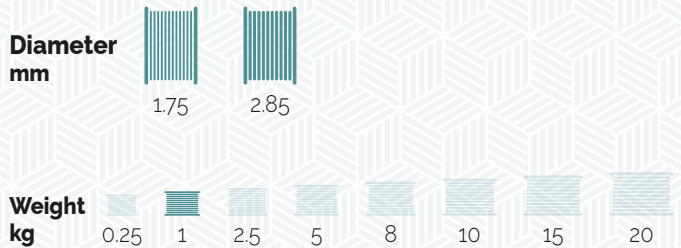
Cooling the filament as soon as it is deposited will help with shrinkage, thus avoiding stringing. In the first two layers the coating fan should be deactivated to help the adhesion with the base.

Other Tips

Keep the nozzle clean of dirt; use a "sock" on the hotend to prevent the plastic from sticking to the nozzle and the heating cube, as these residues when carbonised will be deposited during printing and cause defects in the finished part.

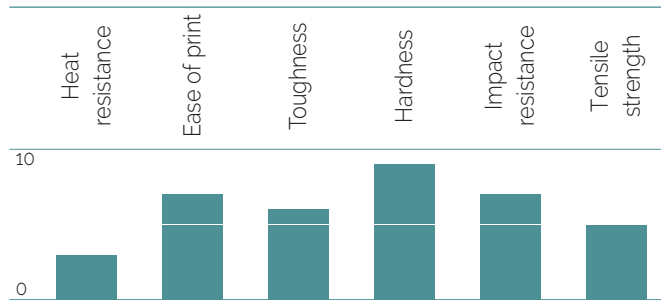


PETG Certified UV resistant



Colours

RAL			RAL		
Grey	9006	●	Dark Grey	7016	●
Natural		○	Yellow	1016	●
Pink	3015	●	Green	6018	●
Black	9005	●	Dark Green	6029	●
Blue	5002	●	Straw	3018	●
Orange	2004	●	Light Orange	2003	●
Cyan	5012	●	Turquoise	5018	●
Mint	6019	●	Violet	4010	●
Beige	9001	●	Baby Blue	5024	●
White	9010	●	Red	3020	●



- Zero Bubble
- Non-toxic
- Anti-warping
- Smooth surface
- Tolerance 0.05mm

Food contact safe
Safe for contact with food

Toy safe
Certified safe for toys

ISO certified
ISO 9001 & ISO 14001 certification

Made in Spain
Manufactured in Cantabria, Northern Spain

Specifications

Material	PET-G
Diameter tolerance	± 0.05 mm
Density	1.27 g/cm ³ ASTM D792

Printing advice

Print temperature	230 - 245°
Print speed	20 - 100 mm/s
Bed temperature	60 - 90°

Mechanical Properties

Rockwell Hardness	105	ASTM D785
Tensile strength yield	50 Mpa	ASTM D638
Tensile strength break	26 Mpa	ASTM D638
Elongation @ break	120%	ASTM D638

Filament Specification

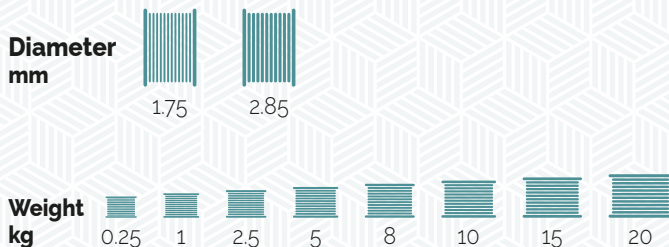
Diameter	1.75 mm & 2.85 mm
Tolerance	± 0.05

Security

This product 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.

Suitable for food contact	Yes (EU) 10/2011
Suitable for Toys	Yes
Suitable for packaging	Yes

PETG Premium



Specifications

Material	PET-G
Diameter tolerance	± 0.05 mm
Density	1.27 g/cm ³ ASTM D792

Printing advice

Print temperature	230 - 245°
Print speed	20 - 100 mm/s
Bed temperature	60 - 90°

Mechanical Properties

Rockwell Hardness	105	ASTM D785
Tensile strength yield	50 Mpa	ASTM D638
Tensile strength break	26 Mpa	ASTM D638
Elongation @ break	120%	ASTM D638

Filament Specification

Diameter	1.75 mm & 2.85 mm
Tolerance	± 0.05

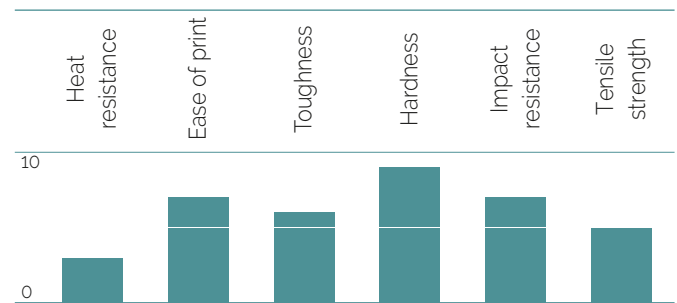
Security

This product 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.

Suitable for food contact	Yes (EU) 10/2011
Suitable for Toys	Yes
Suitable for packaging	Yes

Colours

	RAL		RAL	
Grey	9006	●	Dark Grey	7016 ●
			Yellow	1016 ●
Pink	3015	●	Green	6018 ●
Black	9005	●	Dark Green	6029 ●
Blue	5002	●	Straw	3018 ●
Orange	2004	●	Light Orange	2003 ●
Cyan	5012	●	Turquoise	5018 ●
Mint	6019	●	Violet	4010 ●
Beige	9001	●	Baby Blue	5024 ●
White	9010	●	Red	3020 ●

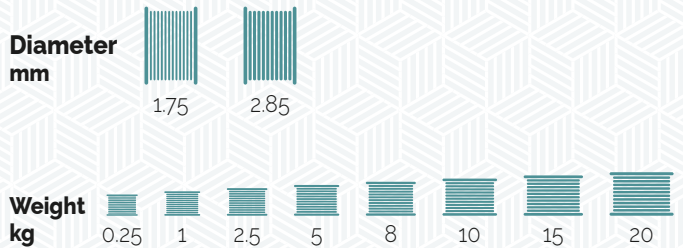


- Zero Bubble
- Non-toxic
- Anti-warping
- Smooth surface
- Tolerance 0.05mm

- Food contact safe**
Safe for contact with food
- Toy safe**
Certified safe for toys
- ISO certified**
ISO 9001 & ISO 14001 certification
- Made in Spain**
Manufactured in Cantabria, Northern Spain

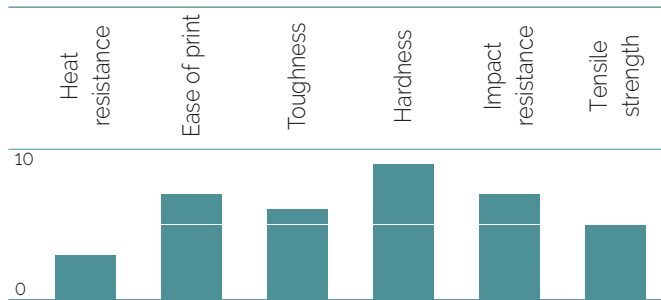


PETG Transition



Colours

RAL			RAL		
Grey	9006	●	Dark Grey	7016	●
Transition	Random	○	Yellow	1016	●
Pink	3015	●	Green	6018	●
Black	9005	●	Dark Green	6029	●
Blue	5002	●	Straw	3018	●
Orange	2004	●	Light Orange	2003	●
Cyan	5012	●	Turquoise	5018	●
Mint	6019	●	Violet	4010	●
Beige	9001	●	Baby Blue	5024	●
White	9010	●	Red	3020	●



- Zero Bubble
- Non-toxic
- Anti-warping
- Smooth surface
- Tolerance 0.05mm

Food contact safe
Safe for contact with food

Toy safe
Certified safe for toys

ISO certified
ISO 9001 & ISO 14001 certification

Made in Spain
Manufactured in Cantabria, Northern Spain

Specifications

Material	PET-G
Diameter tolerance	± 0.05 mm
Density	1.27 g/cm ³ ASTM D792

Printing advice

Print temperature	230 - 245°
Print speed	20 - 100 mm/s
Bed temperature	60 - 90°

Mechanical Properties

Rockwell Hardness	105	ASTM D785
Tensile strength yield	50 Mpa	ASTM D638
Tensile strength break	26 Mpa	ASTM D638
Elongation @ break	120%	ASTM D638

Filament Specification

Diameter	1.75 mm & 2.85 mm
Tolerance	± 0.05

Security

This product 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.

Suitable for food contact	Yes (EU) 10/2011
Suitable for Toys	Yes
Suitable for packaging	Yes



Industries

We manufacture and supply 3D Printer Filament spools to industries. These are produced from the high-quality materials that guarantee long lasting durability, excellent precision in printing details, accurate performance of extrusion process without jamming or clogging.

Large filament spool

Large size spools which meets your needs.

ISO certified

ISO 9001 and ISO 14001 certification.

Quality controlled process

Closely monitored QC processes to ensure conformance.

High production capacity

Highly scalable production which can meet your demands in time.

Materials

We manufacture PLA, INGEO 850, INGEO 870, TPU and PETG Filaments. We can also manufacture Personalised Materials to your desired colour and specification.

Colour on request

Colour on Request service to provide any colour you need from the RAL colour chart.

Dedicated customer support

A designated account manager to answer all your queries.

Trusted by experts at



Colour on Request

3D printing projects often require a colour that is not available in the standard colors that are provided. Whether you want to print a specific color, or need custom colours for your project, Eolas Prints will help you get the filament that fits your needs.

- **Ral Colours**
We will match the colour from the RAL colour chart.
- **Order Quantity**
Minimum order quantity of 50 Kg.
- **Consistent Colours**
Quality controlled process which ensures consistency.

Our Colour on Request service will enable you to choose any colour you need from the RAL colour chart.



Choose from 20 vivid colours or let us create the perfect custom colour for you.

As well as producing high quality PLA, TPU and PETG Filaments, we can produce any material custom to your specification.



Food contact safe

Safe for contact with food



Toy safe

Certified safe for toys



ISO certified

ISO 9001 & ISO 14001 certification



Made in Spain

Manufactured in Cantabria, Northern Spain



Location

Parque Empresarial Besaya D-14

Reocín 39538

Cantabria

Spain



Visit our brand new website for 10% off your first order and free shipping.

www.eolasprints.com