

## SMARTFIL® PLA

PLA de primera calidad, no incorpora reciclado ni recuperado. Totalmente estabilizado y con una variabilidad en diámetro de 0.03 mm. No produce warping. Excelente resolución en la impresión.

PLA 100% premium. It does not incorporate recycled or recovered material. Fully stabilized and a variability in the diameter only of 0.03 mm. No warping occurs. Excellent resolution for printing.

# PLA

### Colores Disponibles / Available Colours

Color	Name	Colour
Natural	Natural	Natural
Blanco	Ivory White	White
Negro	True Black	Black
Amarillo	Orinoco	Yellow
Naranja	Sunset	Oranje
Coral	Coral	Coral
Rojo	Ruby	Red
Brilla en la Oscuridad	Smart Glow	Glows in the Dark
Marrón	Mahogany	Brown
Verde	Chlorophyll	Green 1
Verde 2	Emerald	Green 2
Verde 3	Jade	Green 3
Verde 4	Olive	Green 4
Azul 1	Sapphire	Blue 1
Azul 2	Cobalt	Blue 2
Fluor Yellow	Neo Yellow	Fluor Yellow
Violeta 1	Wisteria	Violet 1
Violeta 2	Aubergine	Violet 2
Rosa	Hillier Lake	Pink
Grís	Antracite	Grey
Dorado	Gold	Gold
Plateado	Silver	Silver
Cambio de Color	Mix	Colour Transition
Rosa Fluor	Neo Pink	Fluor Pink

Physical Properties	Typical Value	Test Method
Material Density	1,24 g/cm <sup>3</sup>	ISO 1183

Chemical Name	Polylactic Acid	
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Mechanical Properties	Typical Value	Test Method
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Tensile Strength	MD 110 MPa	ASTM D882
	TD 114 MPa	ASTM D882

Tensile Modulus	MD 3309 MPa	ASTM D882
	TD 3861 MPa	ASTM D882

Elongation at Break	MD 160%	ASTM D882
	TD 100%	ASTM D882

Elmendorf Tear	MD 15 g/ml	ASTM D1922
	TD 13 g/ml	ASTM D1922

Thermal Properties	Typical Value	Test Method
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Heat Deflection Temperature B	65 °C	ASTM D1505
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Vicat Softening Temperature	85° C	ASTM D1525
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Printing Properties	Typical Value
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Print Temperature	220 ±20 °C
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Hot Pad	0-60 °C
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Fan Layer	On (100%)
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Size	Net W.	Gross W.	Diameters	Packaging Characteristics
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S	330 g	348 g	1.75 mm	SmartBag, security seal
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M	750 g	975 g	1.75/2.85 mm	SmartBag, security seal
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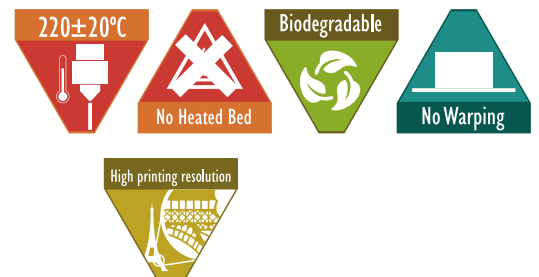
L	1000 g	1256 g	1.75/2.85 mm	SmartBag, security seal
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XL <sup>1</sup>	3300 g	3864 g	1.75/2.85 mm	SmartBag, security seal
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XXL <sup>1</sup>	5600 g	6346 g	1.75/2.85 mm	SmartBag, security seal
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XXXL <sup>1</sup>	8000 g	8746 g	1.75/2.85 mm	SmartBag, security seal
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<small>(1) XL, XX and XXL son fabricados bajo demanda. Plazo de entrega entre 1 y 5 semanas. XL, XX and XXL spools are made under order. Delivered term between 1 and 5 weeks.</small>				
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Reciclabre  
Recyclable  
Recyclable



Apto para contacto  
con alimentos  
Food Approved  
Aliments approuvés



Biocompostable  
Biocompostables

**Nota:** Ninguno de nuestro filamentos contiene material reciclado con el fin de ofrecer filamentos de la mejor calidad.

**Note:** None of our filaments is produced with recycled material in order to get the highest quality filaments.