PLA SILK

It is a biodegradable filament and for all printers, with which we can print easily, since it does not have lasting contractions, in this way, to manufacture large-sized parts. With our PLA SILK filament you can achieve a great metallic or silky finish.

Reciclable Recyclable Recyclable

Biodegradable Biodegradable Biodégradable

Compostable compostable compostables

	TIPICAL VALUE		UNITS	TEST METHOD
PHYSYCAL PROPERTIES				
Chemical Name	Polilactic Acid			
Material Density	1.24		g/cm^3	ISO 1183
MECHANICAL PROPERTIES [1]	**AXIS XY**	**AXIS XZ**		
Tensile Strength	55.5	43.8	MPa	ISO 527
Tensile Modulus	4635.7	3129.8	MPa	ISO 527
Flexural Strength	107	18	MPa	ISO 178
Flexural Modulus	3189.7	2467.1	MPa	ISO 178
Elongation at break	1.1	1.8	%	ISO 178
Charpy Impact (notched, 23˚C)	-	-	kJ/m^2	ISO 179
Hardness	85.4		Shore D	ISO 7619 – 1

[1] Values obtained on printed specimens, 0.6 mm nozzle, 100% rectilinear infill, 0.2 mm layer height for more information contact us by email at info@smartmaterials.com or visit our website www.smartmaterials3d.com

THERMICAL PROPERTIES			
Thermal bending temperature	-	ºC	ASTM E2092
PRINTING PROPERTIES			
Print Temperature	200 – 220	˚C	
Hot Pad	0 – 60	˚C	
Fan Layer	50 – 80	%	
Print Speed	25 – 35	mm/s	
Flow	100	%	
Layer Height	-	mm	
Recommended Nozzle Size (Brass)	-	mm	

SIZE	NET WEIGHT	GROSS WEIGHT	DIAMETERS	COLOR	PACKAGING
M	750g	975 g	1.75 mm/2.85 mm	Various colors	SmartBag, polycarbonate spools, desiccant bag.