

Fusement



3D PRINT THE FUTURE

PLA

It is a biodegradable filament and for all printers, with which we can print easily, since it has no contractions allowing, in this way, to manufacture large pieces. With our PLA filament you can get a great finish and bright colors in our pieces.

	VALUES		UNIT OF MEASUREMENT	STANDARD
PHYSICAL PROPERTIES				
Chemical name	Polylactic acid			
Density	1,24		g/cm ³	ASTM D792
MECHANICAL PROPERTIES ¹⁾				
	XY PLANE	ZX PLANE		
Tensile strength	55,5	43,8	MPa	ISO 527
Traction module	4635,7	3129,8	MPa	ISO 527
Flexion strength	107	18	MPa	ISO 178
Flexion module	3189,7	2467,1	MPa	ISO 178
Elongation at maximum effort	1	1,4	%	ISO 527
Tensile elongation (until breakage)	1,1	1,4	%	ISO 527
Elongation by flexion at break	5,2	1,8	%	ISO 178
Charpy Impact Force (non-notched)	17,5	7	kJ/m ²	ISO 179
Hardness	85		Shore D	ISO 7619-1
<small>¹⁾ Values obtained on printed specimens, nozzle 0,4 mm, rectilinear infill 100%, layer height 0,2 mm.</small>				
THERMAL PROPERTIES				
Glass transition temperature (Tg)	60		°C	ISO 11357
VICAT B (50 N 50°C/h)	59		°C	ISO 306
HDT B (0,45 MPa)	60		°C	ISO 75
PRINTING PROPERTIES				
Printing temperature	205 – 220		°C	
Bed temperature	40 – 60		°C	
Layer fan	100		%	
Material flow	100		%	
Layer height	≥ 0,1		mm	
Nozzle recommendations	≥ 0,2		mm	
Print speed	30 – 50		mm/s	

NOTICE: The information provided in the data sheets is intended for reference only. It should not be used as design or quality control values. Actual values may differ significantly depending on printing conditions. The final performance of printed components not only depends on materials, design and printing conditions are also important.



Biodegradable



Allow for all printers



Food Approved



Compostable

