

PLA 3D850

TECHNICAL DATA SHEET VERSION 1.1



PLA 3D850

PLA Ingeo by Nature Works with very low thermal contraction, it is ideal for printing pieces with an incredible resolution, very precise and without deformation, with better mechanical and thermal properties than SMARTFIL PLA. Easy to use with great performance.



Recyclable
Recyclable
Recyclable



Apto para contacto
con alimentos
Food Approved
Aliments approuvés

	TIPICAL VALUE	UNITS	TEST METHOD		
PHYSICAL PROPERTIES					
Chemical Name	Polylactic Acid				
Material Density	1.24	g/cm ³	ISO 1183		
MECHANICAL PROPERTIES					
Tensile Yield Strength	65.5	MPa	ASTM D882		
Notched Izod Impact	40	J/m	ASTM D256		
Flexural Strength	126	MPa	ASTM D790		
Flexural Modulus	4357	MPa	ASTM D790		
THERMAL PROPERTIES					
Heat Distorsion Temperature	* 144	°C	ISO75		
<small>* Post-annealing in the range of 80-130°C can be used to promote crystallization and improve the heat deflection temperature of the 3D printed part.</small>					
PRINTING PROPERTIES					
Print Temperature	200-220	°C			
Hot Pad	0-60	°C			
Fan Layer	ON (100)	%			
SIZE	NET W.	GROSS W.	DIAMETERS	COLOR	PACKAGING
M	750 g	975 g	1.75 mm/2.85 mm	Various colors	SmartBag, security seal, desiccant bag

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

Smart Materials assumes no responsibility for any damage, injury or loss produced by the use of its filaments in any particular application.