

### PLA E.P.

This filament is a modified PLA to make it machinable and obtain a completely smooth surface finish. Sanding it with sandpaper together with water leaves a similar finish to ceramic. It can also be painted with any kind of paint. It is recommended for architecture, odontology, restoration, models, imitations of sculptures, etc...



Recyclable  
Recyclable  
Recyclable



Apto para contacto  
con alimentos  
Food Approved  
Aliments approuvés



Biocompostable  
Biocompostable  
Biocompostables

	TIPICAL VALUE	UNITS	TEST METHOD		
<b>PHYSICAL PROPERTIES</b>					
Chemical Name	Polylactic Acid				
Material Density	1.10	g/cm <sup>3</sup>	ISO 1183		
<b>MECHANICAL PROPERTIES</b>					
Flexural Strenght	126	MPa	ASTM 790		
Flexural Modulus	435	MPa	ASTM 790		
Notched Izod Impact	32	kJ/m	ASTM 256		
Tensile Yield Strenght	65.5	MPa	ASTM 638		
<b>THERMAL PROPERTIES</b>					
Heat Distorsion Temperature	144	°C	ASTM D1505		
Vicat Softening Temperature	70	°C	ASTM D1525		
<b>PRINTING PROPERTIES</b>					
Print Temperature	190-210	°C			
Hot Pad	0-60	°C			
Fan Layer	ON (100)	%			
Layer Height	> 0,2	mm			
<b>SIZE</b>	<b>NET W.</b>	<b>GROSS W.</b>	<b>DIAMETERS</b>	<b>COLOR</b>	<b>PACKAGING</b>
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.