

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...



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Recyclable
Recyclable



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con alimentos
Food Approved
Aliments approuvés



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	TIPICAL VALUE	UNITS	TEST METHOD		
PHYSICAL PROPERTIES					
Chemical Name	Polylactic Acid				
Material Density	1.24	g/cm ³	ISO 1183		
Glass Transition Temperature	55-60	°C	D3418		
MECHANICAL PROPERTIES					
Tensile Strength at Break	53	MPa	D882		
Tensile Yield Strength	60	MPa	D882		
Tensile Modulus	3.6	GPa	D882		
Tensile Elongation	6	%	D882		
Notched Izod Impact	16	J/m	D256		
Flexural Strength	83	MPa	D790		
Flexural Modulus	3.8	GPa	D790		
THERMAL PROPERTIES					
Heat Distorsion Temperature (0.45 MPa)	55	°C	E2092		
PRINTING PROPERTIES					
Print Temperature	200-240	°C			
Hot Pad	0-60	°C			
Fan Layer	ON (100)	%			
SIZE	NET W.	GROSS W.	DIAMETERS	COLOR	PACKAGING
S	330 g	475 g	1.75 mm	Various colors	SmartBag, security seal, desiccant bag
M	750 g	975 g	1.75 mm/2.85 mm	Various colors	
L	1000 g	1256 g	1.75 mm/2.85 mm	Various colors	

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.