

## PLA Crystal Clear

### Description:

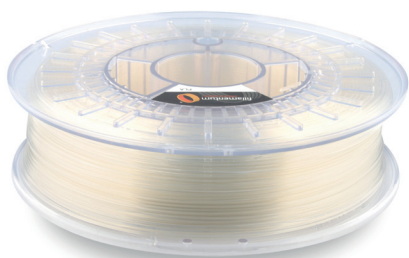
Fillamentum PLA Extrafill is a material for the FFF (also known as FDM) 3D printing technology.

The advantage of this material is that it can be used in 3D printers easily, that it allows a high quality of printing even in tricky details and an excellent lamination of the printed object.

PLA filament is made of natural ingredients and is easily biodegradable by composting. Thanks to its composition, it is biocompatible and suitable for food contact.

Fillamentum guarantees high precision of filament dimensions within the tolerance of  $\pm 0,05$  mm, which is strictly controlled throughout the production.

Printing filaments reported on the marked under the trademark Fillamentum are produced in a wide variety of colours in accordance with the colour charts RAL and Pantone, and also in own unique colour ranges.



Physical Properties	Typical Value	Test Method	Test Condition
Material density	(1,25 $\pm$ 0,05) g/cm <sup>3</sup>	GB/T1033-1986	
Melt volume index	0,8-2,5 cm <sup>3</sup> /10 min	GB/T3682-2000	190 °C, 2,16 kg
Diameter tolerance	$\pm 0,05$ mm		
Weight	750 g of filament (+ 250 g spool)		

Mechanical Properties	Typical Value	Test Method	Test Condition
Tensile strength	50 MPa	GB/T1040-1992	
Elongation at break	3,0 %	GB/T1040-1992	
Izod impact strength	3-5 kJ/m <sup>2</sup>	GB/T1043-1992	

Thermal Properties	Typical Value	Test Method	Test Condition
Melting temperature	170-180 °C	GB/T19466.3-2004	
Glass transition temperature	60-63 °C	GB/T19466.2-2004	

Printing properties	Typical Value	Test Method	Test Condition
Print temperature	190-210 °C		
Hot pad	40-50 °C		
Speed of printing	30-40 mm/s		

Workability of 3D printing filament is at least 12 months from delivery.

The information was processed with the best knowledge of the manufacturer and it is for information only.