

# TECHNICAL DATA SHEET

## High Gloss PLA

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### Product specifications

High Gloss PLA is an aesthetical PLA type of 3D printer filament that 3D prints parts without visible layers and an extremely high surface gloss and high level of light dispersion and reflection.

### Important key features

High level of light dispersion and reflection  
Very smooth and silky surface finish  
Compatible with AquaSolve PVA for complex dual extrusion 3D printing

### Suitable applications

Aesthetics, design, and art  
Complex educational projects and models  
Household articles

### Recommended pretreatment

#### Drying

Not necessary  
30 - 60 °C  
6 h

#### Print with

Enclosure No  
Dry box No

### Recommended print settings regular speed

Print speed 25 - 110 mm/s  
Nozzle temperature 210 - 240 °C  
Bed temperature 40 - 60 °C  
Fan speed 80 - 100 %

### Material properties

	Typical value	Unit of Measure	Test method	Test condition
Density				
Specific gravity	1,22	g/cm <sup>3</sup>	ASTM D792	
Melt flow rate	6	g/10min	ASTM D1238	210°C/2,16kg

### Mechanical properties

Impact strenght	6	J/m	ASTM D256	Izod notched 23°C
Tensile strenght at yield	59	MPa	ISO 527	
Tensile strenght at break	45	MPa	ISO 527	
Tensile modulus	2700	MPa	ISO 527	
Elongation at yield	5	%	ISO 527	
Elongation at break	10	%	ISO 527	
Flexural strenght	72	MPa	ASTM D790	
Flexural modulus				
Rockwell hardness				

### Thermal properties

Melting temperature				
Heat deflection temperature	50	°C	ISO 75	HDT A
Vicat softening temperature				
Glass transition temperature	57	°C	DSC	

### Product export information

#### HS code

39169090

#### Description

Monofilament for 3D printing

#### Origin

European Union

### Disclaimer

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