Specification of Standard PLA

①Background

A degradable, environment-friendly, common-used material in the market, the most basic material in the 3D printing industrial.

②Main Ingredients

PLA, Toughener, Toner.

\Im Features

- Environmentally friendly, no odor, nontoxic.
- High intensity, bright and clear color.
- Low shrinking percentage and hardly curl.
- Suitable for 99% commonly used FDM 3D printers.

4 Application and Target Audience

Any occasion without special requirements, 3D printing groups at all levels.

⑤PLA Filament Technical Specification

• Filament Diameter: 1.75mm

• Tolerance: ±0.03mm

• Printing Temperature: 190°C-220°C

Heated Bed Temperature: 55-70°C

• Printing Speed: 30-100mm/s

© Relevant Parameters of Recommended Machine Types

Relevant Parameters of Recommended Machine Types			
Туре	Type Extruder / Heated Bed Type Parameter		
		Printing Temperature: 190-220℃	
		Heated Bed Temperature: 55-65°C	
Creality Ender 3	Bowden/Flexible Bed Sticker	Printing Speed: 30-65mm/s	
		Retracting Length: 2-4mm	
		Retracting Speed: 60-100mm/s	

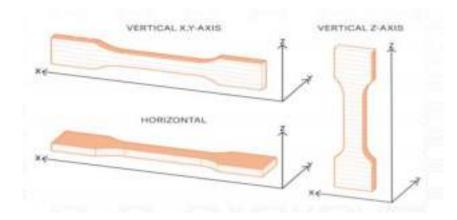
Creality CR-10 Bowden/Glass Bed Printing Temperature: 190-215°C Heated Bed Temperature: 65-70°C Printing Speed: 30-60mm/s Retracting Length: 2-5mm Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-80mm/s Retracting Length: 2-4mm Retracting Speed: 30-80mm/s Retracting Length: 2-4mm Retracting Speed: 70-100mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-40mm/s Retracting Speed: 30-40mm/s Retracting Speed: 30-40mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-40mm/s Retracting Speed: 30-40mm/s Printing Temperature: 25-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 30-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 30-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-110mm/s Printing Speed: 30-110mm/s Printing Speed: 30-100mm/s Retracting Length: 4mm Retracting Speed: 30-100mm/s Retracting Length: 2-5mm Retracting Length: 2-5mm Retracting Length: 2-5mm Retracting Speed: 80-110mm/s			Ţ	
Creality CR-10 Bowden/Glass Bed Printing Speed: 30-60mm/s Retracting Length: 2-5mm Retracting Speed: 80-110mm/s Printing Temperature; 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-80mm/s Retracting Length: 2-4mm Retracting Length: 2-4mm Retracting Speed: 30-100mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-100mm/s Retracting Length: 0.8mm Retracting Speed: 30-100mm/s Retracting Length: 0.8mm Retracting Speed: 30-40mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-40mm/s Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 30-70mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-70mm/s Printing Temperature: 50-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Length: 4mm Retracting Length: 4mm Retracting Speed: 30-110mm/s Printing Temperature: 60-70°C Printing Speed: 30-100mm/s Retracting Speed: 30-100mm/s Retracting Speed: 30-100mm/s Retracting Speed: 30-100mm/s Retracting Length: 2-5mm	Creality CR-10			
Anycubic Mega-S Bowden/ Microporous Coating Glass Bed Bowden/ Microporous Coating Glass Bed Printing Temperature; 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-80mm/s Retracting Length: 2-4mm Retracting Speed: 70-100mm/s Prusa i3 Direct Drive Extruder/PEI Bed Sticker Prusa i3 Direct Drive Extruder/PEI Bed Sticker Printing Speed: 30-100mm/s Retracting Length: 0.8mm Retracting Speed: 30-40mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-40mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 30-70mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 30-110mm/s Printing Temperature: 60-70°C Printing Speed: 30-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-100mm/s Retracting Speed: 30-100mm/s Retracting Speed: 30-100mm/s Retracting Speed: 30-100mm/s Retracting Length: 2-5mm			Heated Bed Temperature: 65-70°C	
Retracting Length: 2-5mm Retracting Speed: 80-110mm/s Bowden/ Microporous Coating Glass Bed Printing Speed: 30-80mm/s Retracting Length: 2-4mm Retracting Speed: 70-100mm/s Printing Temperature: 60-70°C Printing Speed: 30-80mm/s Retracting Length: 2-4mm Retracting Speed: 70-100mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-100mm/s Retracting Length: 0.8mm Retracting Speed: 30-40mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-40mm/s Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Length: 4mm Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 60-70°C Printing Temperature: 60-70°C Printing Speed: 30-100mm/s Retracting Speed: 30-100mm/s Retracting Length: 2-5mm		Bowden/Glass Bed		
Anycubic Mega-S Bowden/ Microporous Coating Glass Bed Printing Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-80mm/s Retracting Length: 2-4mm Retracting Speed: 70-100mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Temperature: 55-70°C Printing Speed: 30-100mm/s Retracting Length: 0.8mm Retracting Speed: 30-40mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 0.8mm Retracting Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 69-70°C Printing Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm		bowderly diass bed	Retracting Length: 2-5mm	
Heated Bed Temperature: 60-70°C Printing Speed: 30-80mm/s Retracting Length: 2-4mm Retracting Speed: 70-100mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-100mm/s Retracting Length: 0.8mm Retracting Speed: 30-40mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-40mm/s Printing Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 30-110mm/s Printing Speed: 30-110mm/s Printing Speed: 30-110mm/s Printing Temperature: 65-70°C Printing Speed: 80-1110mm/s Printing Speed: 30-100mm/s Retracting Length: 4mm Retracting Speed: 30-100mm/s Retracting Speed: 30-100mm/s Retracting Length: 2-5mm			Retracting Speed: 80-110mm/s	
Heated Bed Temperature: 60-70°C Printing Speed: 30-80mm/s Retracting Length: 2-4mm Retracting Speed: 70-100mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-100mm/s Retracting Length: 0.8mm Retracting Speed: 30-40mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-40mm/s Printing Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 30-110mm/s Printing Speed: 30-110mm/s Printing Speed: 30-110mm/s Printing Temperature: 65-70°C Printing Speed: 80-1110mm/s Printing Speed: 30-100mm/s Retracting Length: 4mm Retracting Speed: 30-100mm/s Retracting Speed: 30-100mm/s Retracting Length: 2-5mm				
Anycubic Mega-S Bowden/ Microporous Coating Glass Bed Retracting Length: 2-4mm Retracting Speed: 70-100mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-100mm/s Retracting Length: 0.8mm Retracting Length: 0.8mm Retracting Length: 0.8mm Retracting Speed: 30-40mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 30-70mm/s Retracting Length: 4mm Retracting Length: 4mm Retracting Length: 4mm Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-100mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 190-220°C Heated Bed Temperature: 90-220°C Heated Bed T			Printing Temperature; 190-220°C	
Anycubic Mega-S Glass Bed Retracting Length: 2-4mm Retracting Speed: 70-100mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-100mm/s Retracting Length: 0.8mm Retracting Speed: 30-40mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 55-70°C Printing Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 200-220°C Heated Bed Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-100mm/s Retracting Speed: 30-100mm/s Retracting Length: 2-5mm			Heated Bed Temperature: 60-70°C	
Glass Bed Retracting Length: 2-4mm Retracting Speed: 70-100mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Prusa i3 Direct Drive Extruder/PEI Bed Sticker Printing Speed: 30-100mm/s Retracting Length: 0.8mm Retracting Speed: 30-40mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 65-70°C Printing Temperature: 65-70°C Printing Temperature: 90-220°C Heated Bed Temperature: 90-220°C Heated Bed Temperature: 90-70°C Printing Temperature: 90-70°C Printing Temperature: 90-70°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm	Anycubic Mega-S	Bowden/ Microporous Coating	Printing Speed: 30-80mm/s	
Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-100mm/s Retracting Length: 0.8mm Retracting Speed: 30-40mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 190-220°C Heated Bed Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 60-70°C Heated Bed Temperature: 190-220°C	Anycubic Mega-3	Glass Bed	Retracting Length: 2-4mm	
Prusa i3 Direct Drive Extruder/PEI Bed Sticker Printing Speed: 30-100mm/s Retracting Length: 0.8mm Retracting Speed: 30-40mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 30-60mm/s Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 30-110mm/s Printing Temperature: 65-70°C Printing Speed: 30-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 190-220°C Heated Bed Temperature: 190-220°C Heated Bed Temperature: 190-220°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm			Retracting Speed: 70-100mm/s	
Prusa i3 Direct Drive Extruder/PEI Bed Sticker Retracting Speed: 30-100mm/s Retracting Speed: 30-40mm/s Retracting Speed: 30-40mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 55-70°C Printing Temperature: 200-220°C Heated Bed Temperature: 85-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 65-70°C Printing Speed: 80-110mm/s Retracting Speed: 80-110mm/s Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm			Printing Temperature: 190-220°C	
Retracting Length: 0.8mm Retracting Speed: 30-40mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm			Heated Bed Temperature: 55-70°C	
Retracting Speed: 30-40mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Length: 4mm Retracting Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm	Prusa i3	Direct Drive Extruder/PEI Bed Sticker	Printing Speed: 30-100mm/s	
Printing Temperature: 190-220°C Heated Bed Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 65-70°C Printing Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 190-220°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm			Retracting Length: 0.8mm	
Heated Bed Temperature: 55-70°C Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 30-110mm/s Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm			Retracting Speed: 30-40mm/s	
Eryone Thinker S Bowden/PEI Bed Sticker Printing Speed: 30-60mm/s Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm			Printing Temperature: 190-220°C	
Retracting Length: 4mm Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 190-220°C Heated Bed Temperature: 190-220°C Heated Bed Temperature: 190-220°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm		Bowden/PEI Bed Sticker	Heated Bed Temperature: 55-70°C	
Retracting Speed: 90-110mm/s Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Temperature: 190-220°C Printing Temperature: 190-220°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm	Eryone Thinker S		Printing Speed: 30-60mm/s	
Printing Temperature: 200-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm			Retracting Length: 4mm	
Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 65-70°C Printing Speed: 30-70mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 190-220°C Heated Bed Temperature: 190-220°C Retracting Length: 2-5mm			Retracting Speed: 90-110mm/s	
Eryone Thinker SE Bowden/Glass Bed Printing Speed: 30-70mm/s Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm			Printing Temperature: 200-220°C	
Retracting Length: 4mm Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm			Heated Bed Temperature: 65-70°C	
Retracting Speed: 80-110mm/s Printing Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm	Eryone Thinker SE	Bowden/Glass Bed	Printing Speed: 30-70mm/s	
Printing Temperature: 190-220°C Heated Bed Temperature: 60-70°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm			Retracting Length: 4mm	
Heated Bed Temperature: 60-70°C Printing Speed: 30-100mm/s Retracting Length: 2-5mm			Retracting Speed: 80-110mm/s	
Eryone Thinker ER-20 Bowden/Silk-Screen Glass Bed Printing Speed: 30-100mm/s Retracting Length: 2-5mm			Printing Temperature: 190-220°C	
Retracting Length: 2-5mm			Heated Bed Temperature: 60-70°C	
	Eryone Thinker ER-20	Bowden/Silk-Screen Glass Bed	Printing Speed: 30-100mm/s	
Retracting Speed: 80-110mm/s			Retracting Length: 2-5mm	
			Retracting Speed: 80-110mm/s	

⑦Basic Parameters

PLA Basic Parameter					
Physical Properties	Typical Value: Standard Value	Method: Standard			
Peak Melt Temperature	167±5℃	ISO 11357			
Glass Transition Temperature	55-60	ISO 11357			
MFR [g/10min] (1)	7-15	ISO 1133			

MVR [cm ³ /10 min] (1)	/	ISO 1133
Specific Gravity [g/cm³]	1.24	ISO 1183
Moisture Absorption 24 h [%] (2)	/	/
Moisture Absorption 7 day [%] (2)	/	/
Moisture Absorption 4 weeks [%] (2)	/	/
Heat Deflection Temperature (0,45MPa)	55	ISO 75
Tensile Yield Strength Filament [MPa]	60	ISO 527-1
Explain		
(1) 2.16kg; 210°C	Silve	
(2) 28°C; humidity: 37%		

		Vertical	Vertical	Ī
Property / Print Direction	Horizontal	X, Y Axis	Z Axis	Method
Tensile Modules [GPa]	/	/	/	ISO 527-1
Tensile Yield Strength [MPa]	60	/	/	ISO 527-1
Elongation at Yield Point [%]	3	1	/	ISO 527-1
Impact Strength Charpy (2) [kJ/m²]	24 (no notch)	1	/	ISO 179-1
 Used Printer Type Used Slice Software Slice Parameter, Layer Height, Fill Ratio Printing Speed, Top Layer Number, Bottom Layer Number 	1. Eryone Thinker SE/ER-20 2.Cura/Prusa Slicer 3.205℃, 0.2mm,100%,50mm/s, 5,5	/	/	
(2) Charpy unnotched, edgewise direction of flow according to ISO 179-1		/	1	Place it according to the left picture, use slice software and print it.



®FAQ

- 1.Q: Can PLA be used to print tableware?
 - A: Not recommended. Although PLA is degradable, food-grade raw material, the PLA with toner is non-food grade. If you really want to print a set of tableware, transparent PLA is suggested.
- 2.Q: Why my filament tangles? How can I solve it?
 - A: The tangle of filament isn't caused by the disordered or the imperfect winding. According to the production technology of filament, the filament winds back and forth (from left to right and then from right to left). Normally, there is no overline tangle. A common cause of tangle is that the filament end is not fixed to the holes of spool. Overline tangle or the changed winding direction make filament tangle. So customers need to fix the filament end to the proper holes of the spool.
- 3.Q: The nozzle is clogged by PLA, and how can I solve it?
- A: Inconstant filament diameter, the lower nozzle temperature and frequent replacement with different kinds of filaments will lead to this problem. So, before you get started, clean the nozzle and turn up the temperature to a proper value.
- 4.Q: My prints have web-like strings (stringing) issues. How can I troubleshoot it?
- A: Too high temperature makes the PLA filament melt and flow so fast. Please turn the temperature down to a proper value.

The retracting parameters are improper, so adjust the retracting length and speed.

- 5.Q: There are too much melted filament around the nozzle. What should I do?
- A: This problem can be attributed to over-high temperature, low printing speed, and in the slice software, the nozzle diameter doesn't match with the extrusion output.
- 6.Q: The PLA filament was perfect when I opened the package. After several times of intermittent printing, my PLA filament snaps by accident during printing. Why?
 - A: Normally, the PLA filament in the printing process will not snap by themselves. However, after being affected by moisture, the degradable material PLA will be more brittle and easier to break, so you should pay attention to dampproof.
- 7.Q: The surface of my print isn't very smooth, and the extruded filament has inconstant diameters. Why?
- A: The printing temperature is too high or too low. The temperature doesn't match well with the printing speed. You need to adjust the printing speed or temperature.
- 8.Q: Why my PLA-printed objects don't stick to the heated bed? How do I solve?
 - A: The distance between the nozzle and the bed is too far. Make sure your heated bed is leveled and it's clean. Then judge if the printing temperature and heated bed temperature are too low, and our customers should adjust them to correct ranges.