

Flashprint language	Chinese / English / Arabic / Czech / French / German / Spanish / Japanese / Polish / Turkish	Chinese / English / Arabic / Czech / French / German / Spanish / Japanese / Polish / Turkish	Chinese / English / Arabic / Czech / French / German / Spanish / Japanese / Polish / Turkish	Chinese / English / Arabic / Czech / French / German / Spanish / Japanese / Polish / Turkish	Chinese / English / Arabic / Czech / French / German / Spanish / Japanese / Polish / Turkish	Chinese / English / Arabic / Czech / French / German / Spanish / Japanese / Polish / Turkish	Chinese / English / Arabic / Czech / French / German / Spanish / Japanese / Polish / Turkish	Chinese / English / Arabic / Czech / French / German / Spanish / Japanese / Polish / Turkish
Screen language	English	Simple/Traditional Chinese/English/French/German/Japanese/Korean/Arabic/Spanish/Portuguese/Tuikish/Polish/Italian	Simple/Traditional Chinese/English/French/German/Japanese/Korean/Arabic/Spanish/Portuguese/Tuikish/Polish/Italian	Simple/Traditional Chinese/English/French/German/Japanese/Korean/Polish/Espanish	Simple/Traditional Chinese/English/French/German/Japanese/Korean/Arabic/Spanish/Portuguese/Tuikish/Polish/Italian	Simple/Traditional Chinese/English/French/German/Japanese/Korean/Arabic/Spanish/Portuguese/Tuikish/Polish/Italian	Simple/Traditional Chinese/English/French/German/Japanese/Korean/Arabic/Spanish/	Simple/Traditional Chinese/English/French/German/Japanese
Input/Output file type	Input: 3MF/ STL / OBJ/FPP/BMP/PNG/JPG/JPEG File; Output: x3g File	Input: 3MF/ STL / OBJ/FPP/BMP/PNG/JPG/JPEG File; Output: GX/G File	Input: 3MF/ STL / OBJ/FPP/BMP/PNG/JPG/JPEG File; Output: GX/G File	Input: 3MF/ STL / OBJ/FPP/BMP/PNG/JPG/JPEG File; Output: GX/G File	Input: 3MF/ STL / OBJ/FPP/BMP/PNG/JPG/JPEG File; Output: GX/G File	Input: 3MF/ STL / OBJ/FPP/BMP/PNG/JPG/JPEG File; Output: GX/G File	Input: 3MF/ STL / OBJ/FPP/BMP/PNG/JPG/JPEG File; Output: GX/G File	Input: 3MF/ STL / OBJ/FPP/BMP/PNG/JPG/JPEG File; Output: GX/G File
Printing connection	USB Cable/ SD Card	USB Cable/ U Disk/ Ethernet/WIFI	USB Cable / U Disk / Ethernet/WIFI	USB Cable / SD Card / WIFI	USB Cable/ USB Disk / WIFI	USB Cable / U Disk / WIFI	USB Disk/ WIFI	USB Disk/ WIFI
Certification	CE / FCC / RoHS	CE / FCC / RoHS	CE / FCC / RoHS	CE / FCC / RoHS	CE / FCC / RoHS	CE / FCC / RoHS	CE / FCC / RoHS	CE / FCC / RoHS
Working temperature	15-30℃	15-30℃	15-30℃	15-30℃	20~30℃	20~30℃	15-30℃	15-30℃
Compatible operating system	Win xp/Vista/7/8/10、Mac OS、Linux	Win xp/Vista/7/8/10、Mac OS、Linux	Win xp/Vista/7/8/10、Mac OS、Linux	Win xp/Vista/7/8/10、Mac OS、Linux	Win xp/Vista/7/8/10、Mac OS、Linux	Win xp/Vista/7/8/10、Mac OS、Linux	Win xp/Vista/7/8/10、Mac OS、Linux	Win xp/Vista/7/8/10、Mac OS、Linux
Compatible slicing software	simplify3D 3.0 version、ReplicatorG、Makerware (Direct Use) Slic3r, Skeinforge, Cura (Need to set up)	Slic3r, Skeinforge, Cura (Need to set up)	Slic3r, Skeinforge, Cura (Need to set up)	Slic3r, Skeinforge, Cura (Need to set up)	Slic3r, Skeinforge, Cura (Need to set up)	Slic3r, Skeinforge, Cura (Need to set up)	Slic3r, Skeinforge, Cura (Need to set up)	Slic3r, Skeinforge (Need to set up)
Heating bed	√	√	√	√	×	×	√	√
Close design	√	√	√	√	√	√	√	√
Auxiliary leveling	×	√	√	×	√	√	×	√
Filament running out reminding	×	√	√	×	√	√	√	√
Replaceable print bed	×	×	×	×	√	√	√	√
Ultra silence design	×	×	×	×	√	√	√	×
Continue last printing when power off	×	√	√	√	×	×	×	×
Intelligent door sensor	×	×	×	×	√	√	×	√
Touch LCD screen	×	√	√	√	√	√	√	√
Constant temperature and circumfluence system	×	×	×	√	×	×	×	×
Remote camera watching	×	×	√	√	×	×	√	√
Wireless WIFI	×	√	√	√	√	√	√	√
Ethernet	×	√	√	×	×	×	√	√
USB stick Interface	×	√	√	×	√	√	√	√

Air filter net	×	×	√	×	×	√	×	√
Magnetic Printing bed	×	×	×	×	×	√	×	×
Cloud	×	√	√	×	√	√	√	√

PLA/rPLA

PLA - short for polylactic acid - is a thermoplastic derived from renewable starches such as corn and sugarcane. PLA is biodegradable and produces few greenhouse gas emissions during its manufacture. PLA does not warp during print – ideal for 3D printers without a heated bed.

Dimensions

Size	Ø tolerance	Roundness
1,75mm	± 0,05mm	≥ 95%
2,85mm	± 0,10mm	≥ 95%

Physical properties

Description	Testmethod	Typical value
Specific gravity	ASTM D1505	1,24 g/cc
MFI	-	6,0 g/10 min
Tensile strength	ASTM D882	110 MPa (MD) 145 MPa (TD)
Elongation at break	ASTM D882	160% (MD) 100% (TD)
Tensile modulus	ASTM D882	3310 MPa (MD) 3860 Mpa (TD)
Impact Strength	-	7,5 KJ/m ²

Thermal properties

Description	Testmethod	Typical value
printing temp.	-	180-210°C
melting temp.	-	210°C ± 10°C
melting point	ASTM D3418	145-160°C
vicat softening temp.	ISO 306	± 60°C

Features:

- Tougher and less brittle compared to regular PLA
- Easy to print at low temperature
- Low warping
- Biodegradable
- Limited smell

Additional info:

Due to its low tendency to warp PLA can also be printed without a heated bed. If you have a heated bed the recommended temperature is ± 35-60°C.

PLA can be used on all common desktop FDM or FFF technology 3D printers.

Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly..



PLA Cosmic

Recycled origin, unrivalled quality

Description

PLA; the staple of desktop 3D printing. Short for polylactic acid, PLA is a bioplastic derived from plant-based sources, meaning it is more environmentally friendly compared to ABS, for example. However, PLA production is depleting natural resources faster than they can be replenished. To address this issue, we have pioneered rPLA 3D printer filament, still boasting the same great PLA features such as; low warping, limited smell and premium print quality – but with the added benefit of being produced from factory waste streams as opposed to virgin pellets. All users of rPLA can feel good about reducing the demand for natural resources and therefore saving the environment, whilst being confident that the print quality will still be one of the best on the market! The go-to filament for all 3D printer owners, perfect consumer products, toys and general prototypes.

		Test Method	Typical Value
<i>Physical Properties</i>	Specific Gravity	ISO 1183	1.24 g/cc
	Melt Flow Rate	ISO 1133	9.56 gr/10 min
	Moisture Absorption	ISO 62	1968 ppm

		Test Method	Typical Value
<i>Mechanical Properties</i>	Impact Strength	ISO 179	3.4 kJ/m ²
	Yield Stress	ISO 527	69.8 MPa
	Strain at Yield	ISO 527	4.8%
	Strain at Break	ISO 527	19.5%
	E-Modulus	ISO 527	3120 MPa

		Test Method	Typical Value
<i>Thermal Properties</i>	Printing Temperature	-	190-220°C
	Melting Temperature	ISO 11357	77-146°C
	Viscat Softening Temperature	ISO 306	60°C

		Tolerance	Roundness
<i>Filament Specifications</i>	Diameter		
	1.75mm	± 0.05mm	>95%
	2.85mm	± 0.05mm	>95%