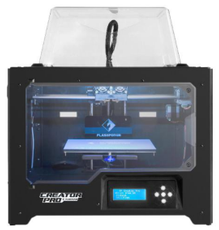
FLashforge 3d printers parameter

Model	Creator Pro	GuiderII	GuiderIIS	Inventor	InventorII			
Name	Creator Pro	GuiderII	GuiderIIS	Inventor	InventorII	InventorIIS	Adventurer3	Creator3
ERP Number	10.000081	10.0001	10.000156	10.000094	10.000088	10.000154	10.000175	10.000223
Picture								
Extruder quantity	2	1	1	2	1	1	1	2, independent
Printing precision	±0.1 mm	±0.1 mm	±0.1 mm	±0.1 mm	±0.1 mm	±0.1 mm	±0.2 mm	±0.2 mm
Position precision	X/Y axis: 0.011mm Z axis: 0.0025mm	X/Y axis: 0.011 mm; Z axis: 0.0025 mm	X/Y axis: 0.011 mm; Z axis: 0.0025 mm	X/Y axis: 0.011 mm; Z axis: 0.0025 mm	X/Y axis: 0.011 mm; Z axis: 0.0025 mm	X/Y axis: 0.011 mm; Z axis: 0.0025 mm	X/Y axis: 0.011 mm; Z axis: 0.0025 mm	X/Y axis: 0.011 mm; Z axis: 0.0025 mm
Layer thickness	0.05-0.4 mm	0.05~0.4 mm	0.05~0.4 mm	0.05-0.4 mm	0.05~0.4 mm	0.05~0.4 mm	0.1~0.4 mm	0.05~0.4 mm
Build size	227 x 148 x 150 mm	280 x 250 x 300 mm	280 x 250 x 300 mm	230 x 150 x 160 mm	150 x 140 x 140 mm	150 x 140 x 140 mm	150 x 150 x 150 mm	300 x 250 x 200 mm
Nozzle diameter	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm
Printing speed	30-200 mm/s	30-200 mm/s	30-200 mm/s	30-200 mm/s	30~150mm/s	30~150mm/s	10~100mm/s	10~200mm/s
Highest extruder temperature	240℃	240℃	240℃	240℃	240℃	240℃	240℃	300℃
Filament diameter	1.75mm（±0.07mm）	1.75mm（±0.07mm）	1.75mm（±0.07mm）	1.75mm（±0.07mm）	1.75mm（±0.07mm）	1.75mm（±0.07mm）	1.75mm（±0.07mm）	1.75mm（±0.07mm）
Filament type	ABS/PLA/Soluble Filament/Flexible Filament/Conductive Filament	ABS/PLA/Soluble Filament/Flexible Filament/Conductive Filament	ABS/PLA/Soluble Filament/Flexible Filament/Conductive Filament	ABS/PLA/Soluble Filament/Flexible Filament/Conductive Filament	PLA / PETG/Flexible Filament/Conductive Filament	PLA / PETG/Flexible Filament/Conductive Filament	ABS, PLA	PLA / ABS/PA/PC/PVA/HIPS/PETG/Wood
Power supply	100-240V~/4.5A-2.5A / 320W	100-240V/5.9A, 500W	100-240V/5.9A, 500W	100-240V/4.5A-2.5A, 320W	DC24V, 2.71A, 65W	DC24V, 2.71A, 65W	100-240V/6.25A, 150W	100-240V/5.9A, 500W
Device size	526（L）*360（W）*403（550）（H）mm	550（L）*490（W）*570（755）（H）mm	550（L）*490（W）*570（755）（H）mm	485（L）*344（W）*382（402）（H）mm	420（L）*420（W）*570（H）mm	420（L）*420（W）*570（H）mm	388（L）*340（W）*405（H）mm	627（H）*485（W）*615（H）mm
Packaging size	556（L）*408（W）*484（H）mm	670（L）*615（W）*695（H）mm	670（L）*615（W）*695（H）mm	560（L）*420（W）*530（H）mm	505（L）*500（W）*550（H）mm	505（L）*500（W）*550（H）mm	480（L）*420（W）*510（H）mm	750（H）*624（W）*732（H）mm
Net weight	14.8 Kg	30kg	30kg	10.7 Kg	11.0 kg	11.0 kg	9.0 kg	40kg
Gross weight	21.5 Kg	35Kg	35Kg	16.4Kg	15.7 Kg	15.7 Kg	13 kg	49.1kg
Slicing software	Flashprint	Flashprint	Flashprint	Flashprint	Flashprint	Flashprint	Flashprint	Flashprint

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； OutputGX/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	×	√	√	×	√	√	√	√

FILAMENTIVE

Sustainable 3D Printing Materials

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/m²

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..

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MECHATRONICS DIRECT LTD

Data sheet
Filament Holder 3

Chemical composition	ABS (Acrylonitrile Butadiene Styrene)
Description	External filament holder for a 3D printer.
Key features	Easy to install. Can be removed from the printer, when not needed. The filament holder's spindle is shaped to fit the majority of commonly used filament spools with shaft holes from 35 mm in diameter.
Application	Holding a filament spool. Compatible with Flashforge Adventurer.
Non suitable for	Food contact and in-vivo applications.

Specifications

Size (L x W x H) (mm)	35 x 35 x 150
Weight (g)	40
Maximum filament spool width (mm)	70
Minimum filament spool hole diameter (mm)	35

License

Filament Holder 3 by m-direct
Published on July 4, 2019
www.thingiverse.com/thing:3729041

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Disclaimer

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
Physical Properties	**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
Mechanical Properties	**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
Thermal Properties	**Printing Temperature**	-	190-220°C
	Melting Temperature	ISO 11357	77-146°C
	Viscat Softing Temperature	ISO 306	60°C

	Diameter	Tolerance	Roundness
Filament Specifications	**1.75mm**	± 0.05mm	>95%
	2.85mm	± 0.05mm	>95%