3D Printing Filament

Professional material manufacturer

1 6000 square meters area

2 600 Tons/Year capacity

3 15 automated production lines

4 Color-customizing service

5 30-day guarantee for your satisfaction

Basic

PLA based

ABS based

PETG based

Other

Professional

Standard series

Elite Creator series

Filament Mate

PLA

General | Reliable | Biodegradable

Flashforge's PLA is affordable, reliable and easy-to-use, suitable for all major 3D printers.
Produced with high-quality raw materials, our product has been improved in toughness and fluidity, owing to adjustments of process and formulation.
The raw material is FDA approved, food-contact compliant, and biodegradable, so the filaments are environmentally friendly and safe to use.
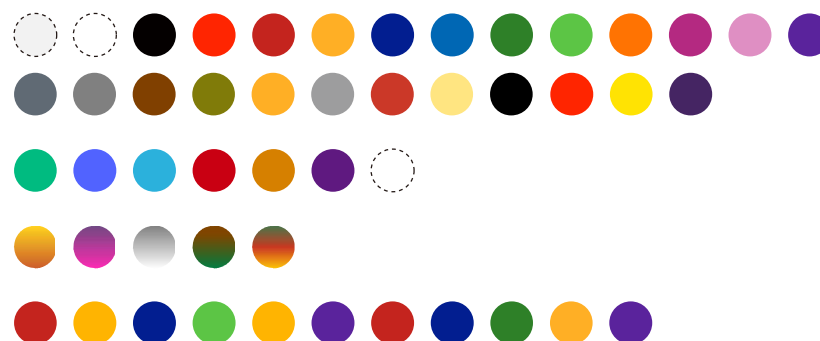
Color

Extruder temperature
190~220℃

Platform temperature
25~60℃

Print speed
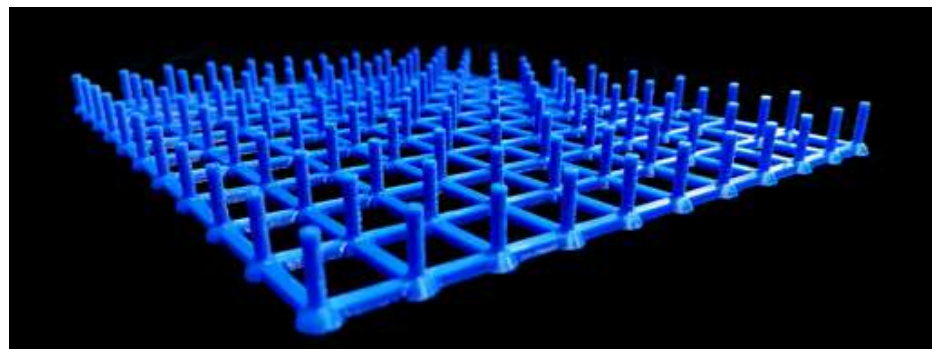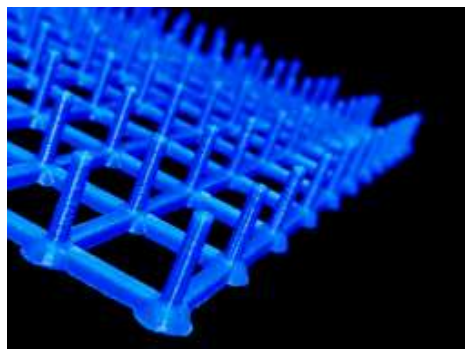**40~60mm/s**

Cooling fan
on

Filament diameter
1.75/2.85/3.0mm

PLA Pro

High-toughness | Strength | Neat rows

Flashforge's PLA Pro is a highly-tough 3D printing filament, suitable for all major 3D printers. Both the filaments and the prints have excellent toughness, and the notched impact strength is 6 times higher compared with the raw materials. This product also has the reliable and easy-to-use features of PLA. In addition to printing general models, it also can be used to print functional models that require a certain mechanical strength.

Color

Extruder temperature
190~220℃

Platform temperature
25~60℃

Print speed
40~60mm/s

Cooling fan
on

Filament diameter
1.75/2.85/3.0mm

HS PLA

High fluidity | High-speed

Flashforge's HS PLA has high fluidity, high-speed, and is FFF Supported.

Using high-quality raw materials production, our product has been improved in fluidity owing to adjustments of process and formulation.

Raw Material is FDA approved and food-contact compliant. Therefore, the consumable is environmentally friendly and safe to use.

Color

Extruder temperature
190~220℃

Platform temperature
25~60℃

Print speed
60~150mm/s

Cooling fan
on

Filament diameter
1.75/2.85/3.0mm

PLA SE

Printability | Biodegradable | Excellent performance

Flashforge's PLA SE is affordable, reliable and easy-to-use for all major 3D printers.

The raw material is FDA food-contact compliant and fully biodegradable, so the filament is environmentally friendly and safe to use.

Color

Extruder temperature
190~220℃

Platform temperature
25~60℃

Print speed
40~60mm/s

Cooling fan
on

Filament diameter
1.75mm

PLA Pearl

High gloss | Reliable

Flashforge 's Pearl has a high gloss, good toughness. It's reliable and easy to use for all major 3D Printers.

The surface of the prints have a silk luster, and the impact resistance of the model is enhanced by more than 50% compared with normal PLA.

Raw Material is FDA food-contact compliant. Therefore, the consumable is environmentally friendly and safe to use.

Color

Extruder temperature
190~220℃

Platform temperature
25~60℃

Print speed
40~60mm/s

Cooling fan
on

Filament diameter
1.75/2.85/3.0mm

PLA Matte

Matte texture | Easy to print

PLA Matte is a low-gloss filament. The models printed with this filament have the characteristics of non-reflection and inconspicuous layering.
Produced with high-quality PLA materials, the process and formulation adjustments improve the toughness and fluidity of the product.As easy to use as PLA consumables.

Color

● ○ ● ● ● ● ● ● ● ● ● ● ● ●
● ● ● ●

Extruder temperature
190~220℃

Platform temperature
25~60℃

Print speed
40~60mm/s

Cooling fan
on

Filament diameter
1.75mm

PLA Metal

Metal powder | Easy to print

Flashforge 's Metal Fill Consumable is mainly made from PLA and metal powder as main raw materials, applicable to a wide range of mainstream FFF 3D Printers.
Through the formula adjustment and process control, the surface uses 0.023mm reactive metal powder to enhance the dispersion effect of the metal powder, and to solve the clogging caused by the Metal powder deposits in the nozzle.
The printed model has metallic texture and luster, which gets enhanced after further polishing.

Color ● ● ●

Extruder temperature
180~220℃

Platform temperature
25~60℃

Print speed
40~60mm/s

Cooling fan
on

Filament diameter
1.75/2.85mm

PLA Rainbow

PLA Rainbow is a colorful filament, there are 4 different colors in the same coil of filament.
Produced with high-quality raw materials, the process and formulation adjustments improve
the toughness and fluidity of the product.
The raw material is FDA food-contact compliant, and fully biodegradable, so the consumables
is environmentally friendly and safe to use.

Color

● ● ● ●

Extruder temperature	Platform temperature	Print speed
190~220℃	**25~60℃**	**40~60mm/s**

Cooling fan	Filament diameter	
on	**1.75mm**	

PLA Color Change

Flashforge's Color Change filament is using PLA For the main raw material for production, with the characteristics of temperature-dependent color change. The product has PLA Non-warping, good interlayer adhesion and easy-to-use properties of applicable to all mainstream FFF 3D Printers.
The color of the print model can vary with temperature: a darker color appears below 33 ℃, and a lighter color appears.
Raw Material is FDA food-contact compliant and fully biodegradable. Therefore, the filament is environmentally friendly and safe to use.

Extruder temperature
190~220℃

Platform temperature
25~60℃

Print speed
40~60mm/s

Cooling fan
on

Filament diameter
1.75/2.85/3.0mm

PLA Silk

Silk Filament is a high-gloss consumable. The surface of the printed model is silky.

Produced with high-quality PLA materials, the process and formulation adjustments improve the toughness and fluidity of the product.As easy to use as PLA consumables.

Color

Extruder temperature
190~220℃

Platform temperature
25~60℃

Print speed
40~60mm/s

Cooling fan
on

Filament diameter
1.75mm

PLA Marble

Marble-surfaced | Biodegradable

Flashforge 's Marble consumable is marble-surfaced 3D printing consumable, suitable for all major FFF 3D printers.

Raw Material is FDA food-contact compliant and can be fully biodegradable. Therefore, the consumable is environmentally friendly and safety.

Extruder temperature
190~220℃

Platform temperature
25~60℃

Print speed
40~60mm/s

Cooling fan
on

Filament diameter
1.75mm

PLA Wood

Environmental protection | Safety

Flashforge's WOOD Consumable is 3D printed lines with PLA and wood flour as main raw materials, applicable to a wide range of mainstream FFF 3D printers.
Through the formula adjustment and process control, it solves the clogging caused by the expansion of wood powder during use; when printed, it has the smell of wood burnt.
The raw material can be completely biodegraded, so the consumable has the characteristics of environmental protection and safety.

Extruder temperature
180~220℃

Platform temperature
25~60℃

Print speed
40~60mm/s

Cooling fan
on

Filament diameter
1.75/2.85mm

PLA-A(Advertisement)

Environmental protection | Safety

The consumption of filament is significantly reduced owing to exemption from secondary edge-cutting. Uniform light transmittance without lamp beads.

Color

Extruder temperature
190~220℃

Platform temperature
25~60℃

Print speed
40~60mm/s

Cooling fan
on

Filament diameter
1.75/2.85mm

PLA-CF

PLA-CF is a high performance 3D printing material with high strength, high abrasion-resistance .

It is produced by carbon fiber reinforced PLA material. The carbon fiber increases the toughness of the material, and in the mean time greatly reduces the shrinkage of the material. When printing, you only need the ordinary heating platform without the thermal. Uniform-sized printing cavity, good interlayer bonding and smooth surface.

56Mpa	**89Mpa**	**2%**
Tensile Strength	Bending Strength	Elongation at Break

Extruder temperature
200~230℃

Platform temperature
25~60℃

Print speed
40~60mm/s

Cooling fan
on

Filament diameter
1.75mm

ABS

Flashforge's ABS is a cost-effective consumable with excellent toughness and temperature resistance.

Extruder temperature
220~240℃

Platform temperature
100~110℃

Print speed
40~60mm/s

Cooling fan
off

Filament diameter
1.75/2.85/3.0mm

ABS Matte

ABS Matte Filament is a low-gloss consumable. The models printed with this filament have the characteristics of non-reflection.

Extruder temperature
190~220℃

Platform temperature
100~110℃

Print speed
40~60mm/s

Cooling fan
on

Filament diameter
1.75/2.85mm

ABS Pro

Nature3D's ABS pro consumable is an enhanced model 3D Print consumable. Compared with normal ABS Consumable, it has lower shrinkage, odor and printing temperature, better mechanical properties, not easy to warp and crack, reliable and easy to use.

Color

Extruder temperature
220~240℃

Platform temperature
80~100℃

Print speed
40~60mm/s

Cooling fan
off

Filament diameter
1.75/2.85/3.0mm

PETG

General | Reliable | Biodegradable

Flashforge Of PETG Consumable is reliable and easy to use with balanced mechanical and thermal properties 3D Printing consumable, printing performance is not inferior to PLA Consumable, with properties as strong and tough as ABS Consumable.

Raw Material is FDA food-contact compliant. Therefore, the consumable is environmentally friendly and safe to use.

Color

14 kinds of Solid color / 7 kinds of Transparent color / 2 kinds of luminous color
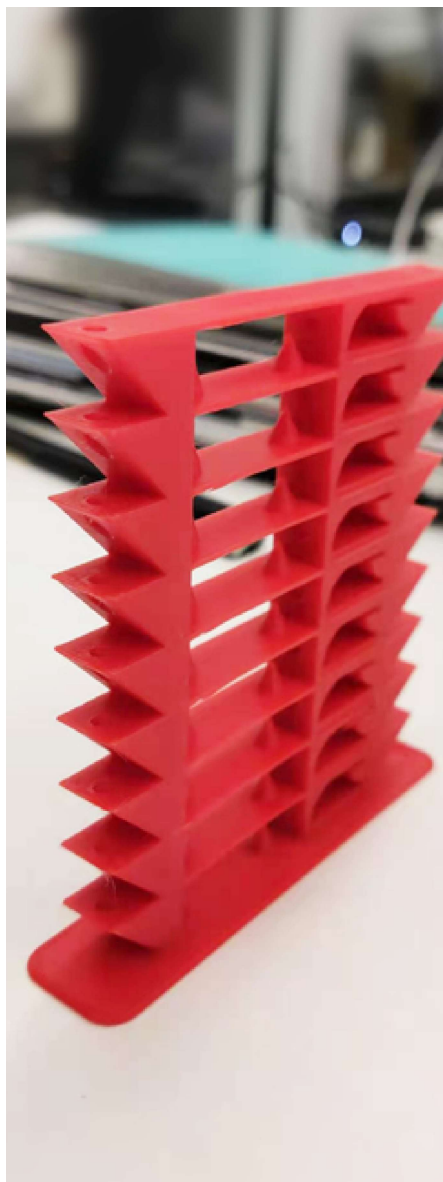(Customized weight/color/wire diameter)

Extruder temperature
220~240°C

Platform temperature
70~80°C

Print speed
40~60mm/s

Cooling fan
on

Filament diameter
1.75/2.85/3.0mm

PETG Pro

General | Reliable | Biodegradable

Flashforge's PETG Pro is a higher performance PETG consumable, with higher heat resistance and better toughness; At the same time, it has the characteristics of stable printing size and non-warping of PETG consumables.
The raw material is FDA food-contact compliant. Therefore, the consumable is environmentally friendly and safe to use.

Color

Extruder temperature
220~240°C

Platform temperature
70~80°C

Print speed
40~60mm/s

Cooling fan
on

Filament diameter
1.75/2.85/3.0mm

PETG-A(Advertisement)

Anti-Uv radiation | Adaptation to 25-65 degrees environment

The PETG-A filament has superior anti-aging ability, and the color and material will not change exposed to ultraviolet radiation for two years. It is applicable for channel letter in outdoor envirement.
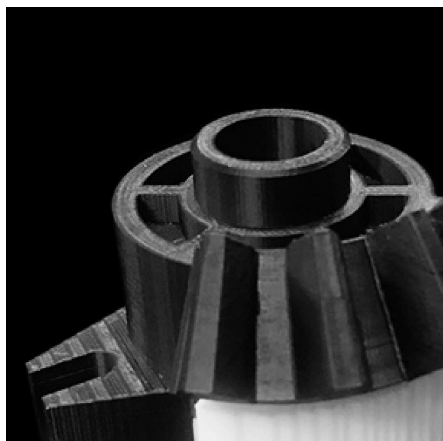
Color

Extruder temperature
230~250℃

Platform temperature
70~80℃

Print speed
40~60mm/s

Cooling fan
on
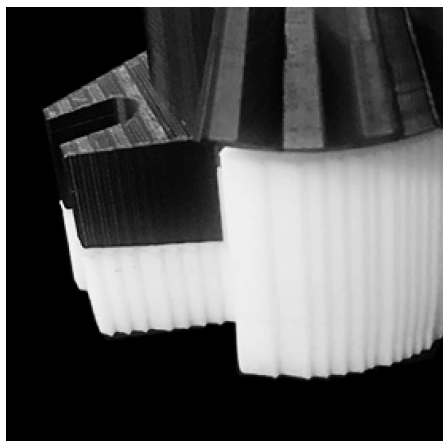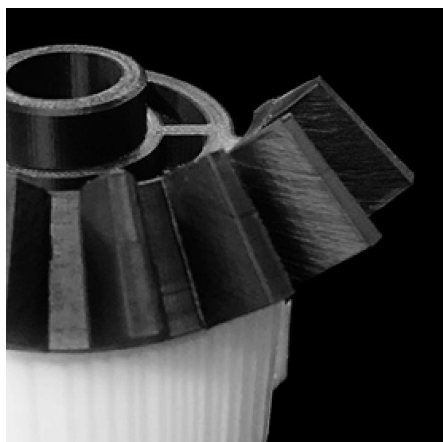
Filament diameter
1.75/2.85mm

HIPS

Flashforge's HIPS is a very cost-effective consumable with good toughness, excellent temperature resistance, smooth wire. Not easy to clog, the surface of the model is smooth, can be used to replace ABS Consumable.

HIPS is completely soluble in limonene, and can be used as support materials of 3D Printed.

Color

Extruder temperature
220~240℃

Platform temperature
100~110℃

Print speed
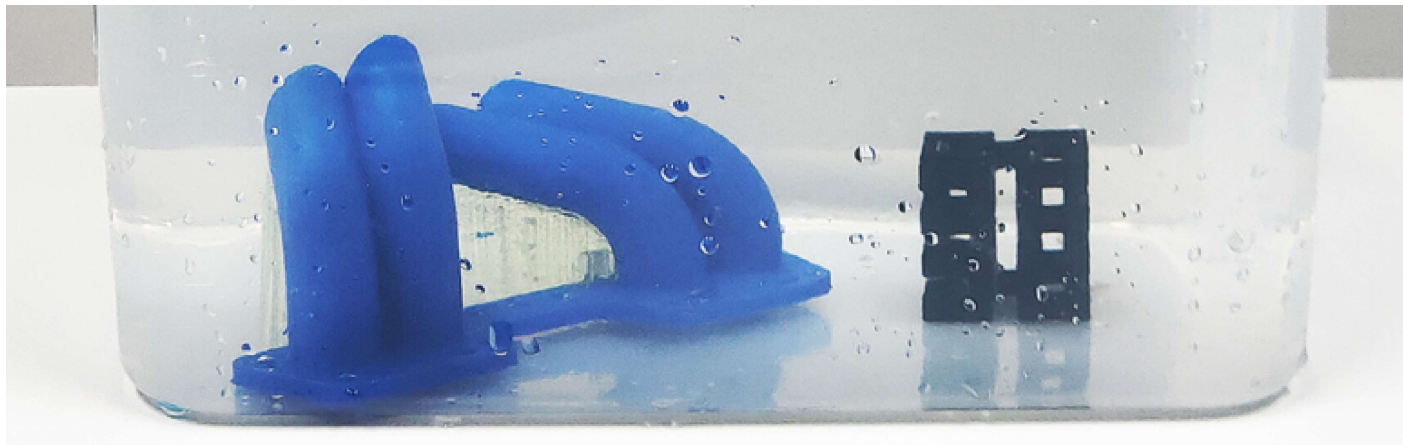40~60mm/s

Cooling fan
off

Filament diameter
1.75/2.85/3.0mm

PVA

Nature3D's PVA consumable is a kind of Water-Soluble Support 3D print material, made from polyvinyl alcohol. The processability and fluidity of the product are improved by adjusting the process control and formula.

As a kind of supporting material, it is compatible with PLA , Pearl , WOOD , Metal Fill , Marble , Flexible , TPU , PA , PETG ect to print complex structure's model, and the contact surface is smooth.

The consumable material has excellent solubility in water and can be completely dissolved within 75 minutes (dissolved water is sufficient, room temperature and the consumables are in full contact with water)
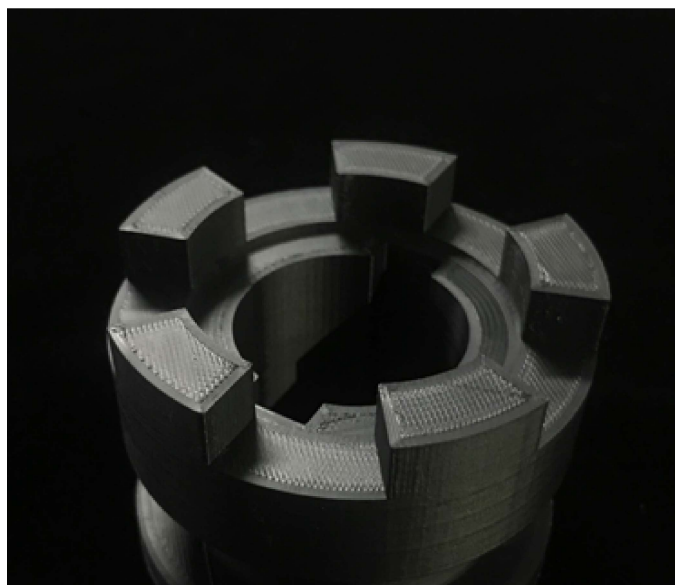
Extruder temperature
190~220°C

Platform temperature
25~60°C

Print speed
40~60mm/s

Cooling fan
on

Filament diameter
1.75/2.85mm

ASA

The material properties of ASA are similar to ABS, with excellent toughness and temperature resistance. ASA Filament's printing requirements are also close to ABS Filament. ASA has more excellent temperature resistance and UV resistance, and can be used outdoors for a long time.

Color

○ ○ ●

Extruder temperature
240~260℃

Platform temperature
100~120℃

Print speed
40~60mm/s

Cooling fan
off

Filament diameter
1.75mm

PA6/66

Flashforge's PA consumable is a kind of affordable, reliable, easy-to-use, entry-level and high-performance 3D printing consumable. suitable for a wide range of mainstream 3D printers.

Using PA6 and PA66 as the raw materials for production, the mold shrinkage and fluidity of the product have been improved through process and formulation adjustment.

With excellent properties of PA material, such as toughness, abrasion resistance and oil resistance, the printed model has excellent surface apperance and dimensional stability, and can be well used in engineering applications.

Color

⚪ ⚪ ⚫

Extruder temperature
220~260℃

Platform temperature
80~110℃

Print speed
40~60mm/s

Cooling fan
off

Filament diameter
1.75/2.85mm

PA1010

PA1010 nylon Filament is a highly transparent 3D printing material,Light transmittance is above 88%.

Transparent nylon Filament uses PA1010 as the main raw material, which has low water absorption, dimensional stability and temperature resistance.
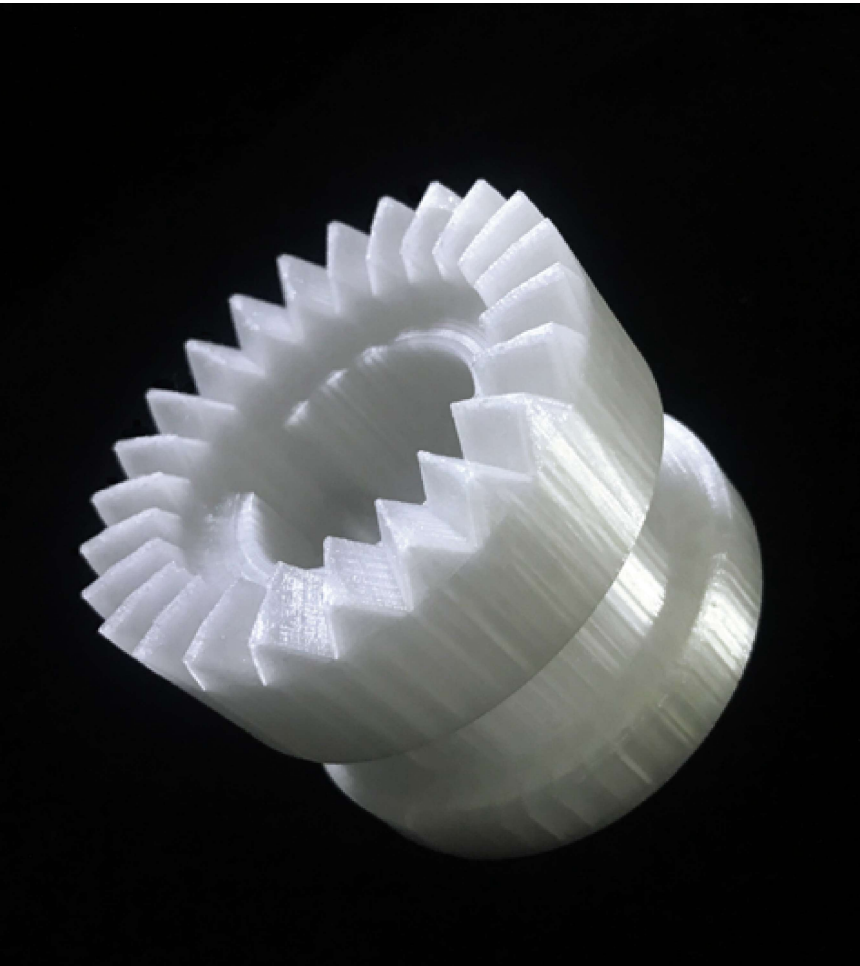
Extruder temperature
220~260℃

Platform temperature
60~100℃

Print speed
40~60mm/s

Cooling fan
off

Filament diameter
1.75mm

PC

Flashforge's PC is an affordable, reliable and easy-to-use 3D printing consumable, suitable for all major 3D printers.
Produced with food grade PC as raw materials, the shrinkage and fluidity of the products are improved through process and formulation adjustments. The printed model is not easy to warp and the interlayer bonding is very good.
The material itself has excellent heat resistance, and the printed models can work for a long time in an environment of 100 ° C or higher.

Extruder temperature
240~260℃

Platform temperature
100~120℃

Print speed
40~60mm/s

Cooling fan
off

Filament diameter
1.75mm

PP

Flashforge's PP is a 3D printing consumable that uses PP as the main material, with the features of low density, high impact and chemical resistance.

The raw material is homopolypropylene, the dimensional stability of the product is improved and adjusted by process and recipe, to prevent the models from warpping and cracking during printing.

PP has excellent toughness and break elongation can reach 500%, commonly known as "Rubber folding 100 times"; PP has strong corrosion resistance and can withstand most organic solvents. Models printed with PP consumables also have high impact and corrosion resistance.

Extruder temperature
200~240℃

Platform temperature
100℃

Print speed
30~60mm/s

Cooling fan
off

Filament diameter
1.75mm

PC-ABS

PC-ABS Filament is a high impact strength and super high heat resistance 3D printing material.

PC-ABS Filament is made of PC and ABS alloy materials, which has the high impact resistance and high temperature resistance of PC, as well as the excellent electrochemical characteristics of ABS.

56Mpa	**89Mpa**	**120 degree**
Tensile Strength	Bending Strength	Heat Deflection Temperature

Extruder temperature
240~260℃

Platform temperature
100~120℃

Print speed
40~60mm/s

Cooling fan
off

Filament diameter
1.75mm

FLEXIBLE

Flashforge's Flexible Consumable is a soft, high glossy, reliable and easy to use 3D Print consumable. Applicable to a wide range of mainstream FFF 3D Printers.
The product is soft and high toughness, and it can be stretched to the original length of 4 Times more.
The interlayer bonding of the print model is very good, The strength of Z-axis direction is not weaker than X , Y-axis direction;
Raw Material is FDA food-contact compliant and fully biodegradable. Therefore, the consumable is environmentally friendly and safe to use.

Color

Extruder temperature
190~230℃

Platform temperature
25~60℃

Print speed
20~40mm/s

Cooling fan
on

Filament diameter
1.75/2.85mm

TPU 95A(ELASTIC)

Flashforge's Elastic Consumable is soft, high toughness and high resilience 3D Print consumable. Suitable for most proximal feeds FFF 3D Printers.

The product uses thermoplastic polyurethane as raw material, the surface hardness is Shore 95A , it can be stretched to the original length of 3 times more.

The interlayer bonding of the print model is very good, The strength of Z-axis direction is not weaker than X , Y-axis direction;
Good abrasion resistance, chemical resistance and weather resistance;
Using temperature is wide, from -30 to 100 ℃.

Color

Extruder temperature
180~230℃

Platform temperature
25~60℃

Print speed
20~40mm/s

Cooling fan
on

Filament diameter
1.75/2.85mm

PA12-CF

≥50MPa
Tensile Strength

≥60MPa
Flexural strength

≥1500MPa
Tensile modulus

≥105J/m (ASTM D256)
Izod notched impact strength
(IZOD,23℃)

≥150%
Elongation @ Break

≥100℃
Heat Distortion Temperature

Flashforge's PA-CF is a high performance 3D printing consumable, specifically developed for industrial applications. It has the feature of high strength, high abrasion-resistance and high temperature resistance.

Produced by carbon fiber reinforced nylon material based on PA12. By formula adjustment, the water absorption of the material is reduced to 1/10 compared to the ordinary PA consumables; The reinforcement of the carbon fiber not only increased the toughness of the material, but also greatly reduced the shrinkage of the material. When printing, only need the ordinary heating platform, without using the thermal printing cavity you can get stable size, good interlayer bonding and smooth surface's model. The ease using of the consumable is greatly improved, and the acquisition of the industrial application model is reduced.

The material also has very good temperature resistance, and can work for a long time at the 150 °C environment.

Extruder temperature
270~290℃

Platform temperature
80~100℃

Print speed
40~60mm/s

Cooling fan
off

Filament diameter
1.75mm

LEHVOSS Group
lehmann& voss&co cooperation

PETG-CF

≥68MPa
Tensile Strength

≥98MPa
Flexural strength

≥50%
Elongation @ Break

PETG-CF is a high performance 3D printing material, It has the feature of high strength, high abrasion-resistance .
Produced by carbon fiber reinforced PETG material .The reinforcement of the carbon fiber not only increased the toughness of the material, but also greatly reduced the shrinkage of the material. When printing, only need the ordinary heating platform, without using the thermal printing cavity you can get stable size, good interlayer bonding and smooth surface's model.

Extruder temperature
230~250℃

Platform temperature
60~80℃

Print speed
40~60mm/s

Cooling fan
on

Filament diameter
1.75mm

PP-CF

≥50MPa
Tensile Strength

≥60MPa
Flexural strength

≥1500MPa
Tensile modulus

≥105J/m (ASTM D256)
Izod notched impact strength
(IZOD,23℃)

≥150%
Elongation @ Break

LEHVOSS Group   lehmann& voss&co cooperation

Flashforge's PP-CF is 3D printing consumables made from carbon fiber reinforced polypropylene, which enhanced the strength and temperature resistance of the material, without changing the PP's impact resistance.
Through the carbon fiber reinforcement, not only the material's toughness improved, but also the shrinkage greatly reduced. When printing, you only need the ordinary heating platform, without using the thermal printing cavity you can get stable size, good interlayer bonding and smooth surface's model. The ease using of the consumable is greatly improved, and the acquisition of the industrial application model is reduced.
The material also has good temperature resistance and can work for a long time in an environment of 130 ℃.
The density of the material only 1 g/cm3, and it is suitable for the printing of lightweight-mechanical models that require strength .

Extruder temperature
240~260℃

Platform temperature
80~100℃

Print speed
40~60mm/s

Cooling fan
off

Filament diameter
1.75mm

Filament Mate

Spool rack | Waterproof | Dust-free

It can help you avoid various printing problems caused by long-term exposure of 3D printing filaments to air. For example, air bubbles, extra wire drawing, rough surface of the model, reduced interlayer adhesion, clogging and so on.

Contact Us

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