colorFabb

colorFabb 3D printing filament portfolio

Welcome to our factory.

Enjoy learning more about our materials offering and company vision and strategy. This catalogue offers a behind the scenes look at how colorFabb operates.

Offer a high quality material and hardware solution to meet the customer's needs.

Our mission statement is reflected throughout the entire organization:

- Filaments are produced by a team of professionals in a climate controlled factory with constant diameter control.

- Use of carefully selected raw materials and specifically developed colors.

- All filaments are tested on a few dozen 3D printers in colorFabb's in-house print lab. Printer brands we test on are: Ultimaker, Lulzbot, Stacker, Robo3D, MassPortal, Prusa, Makerbot, BCN 3D and Leapfrog.

- We have active co-operations with printer and material OEMs to ensure the right materials are used for the right applications.

- Packaging and shipping partners are carefully selected to ensure the best delivery experience.

- Active customer support, both pre and after sales.

colorFabb 2020 portfolio

colorFabb HQ

Early January 2017 colorFabb moved into a state of the art production center in Belfeld, the Netherlands. Located a few kilometers south of Venlo, a logistics hotspot in Western Europe and next to the German border, colorFabb's headquarters allows for further growth in the future.

The 4100 m2 building houses all of colorFabb's competences under a single roof: research & development, production, 3D printing and logistics. The entire building is climate controlled and 480 solar panels provide our production facility with energy, minimizing our carbon footprint

Where it's made.

ColorFabb started with one extrusion line in 2012 and have since increased capacity by at least factor 8. Our experience in 3D filament extrusion makes us the ideal partner to develop custom materials.

colorFabb filaments & partners

colorFabb's 3D printing filament portfolio is known worldwide for its wide variety and high quality. For every need, we have a filament solution.

To compliment our own portfolio we made the strategic decision to also partnerup with leading filament brands offering very specific filaments.

NinjaTek

igus plastics for longer life®

Lehmann&Voss&Co. LEMVOSS Group

colorFabb LABS

At colorFabb labs we showcase our most recent developments and offer users a chance to become part of new material development. We will be launching exciting new materials, available to everyone interested in experimenting with material properties.

Our goal is to create an exciting library of material opportunities which go beyond the imagination of what's possible. We aim to inspire our community, who ultimately are the key players in finding new applications for experimental materials.

Custom extrusion trials.

Our material engineers are available to you to assist in material extrusion trials. If you're interested in having your own material extruded into a 3D printing filament, colorFabb is your development partner.

Starting at small scale to assess the extrusion process, but also upscaling to bigger quantities. Many industrial clients have already used our skill set to develop custom 3D printing materials.

If you're looking for a specific development and it's not yet available at colorFabb, don't hesitate to contact us for more information.
sales@colorfabb.com

COLOR ON DEMAND

750 g

2200 g

2.85 mm

1.75 mm

We make colors happen.

At colorFabb we've reinvented our coloring process for 3D printing filament. We're now able to produce custom colors starting at one 750g spool of PLA filament.

We have already matched dozens of colors which can be ordered like any other product in our webshop.

RAL Colors

Every RAL color we have matched and produced is visible on our webshop. We also accept new RAL colors, which can be ordered using our RAL selector.

New color request

If you're not looking for a RAL color you can request a custom color. On our webshop users can use the 'New color request' form to inform us about the details of their colors.

Color plaques and Granulate

We also offer injection molded color plaques for users to assess the color before ordering filament.

COLOR
ON DEMAND

by colorFabb

PLA/PHA

Design by Eric Harrell

750 g

2200 g

2.85 mm

1.75 mm

Product Description

Our first development for the 3D printing market was a tougher and less brittle PLA filament. Through a process called compounding a polyhydroxyalkanoate is added to a carefully selected PLA. The result of this process is a completely homogenous blend, which is the base material for our PLA/PHA filament.

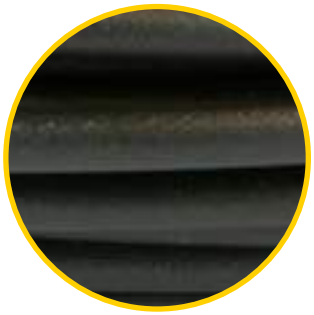
PLA/PHA filament is available in 30 colors with great brilliance and excellent opacity.

With increased toughness and better layer-to-layer adhesion, PLA/PHA is a premium filament.

2200 gram spools for specific colors available on request, MOQ may apply. Contact colorFabb for the options.

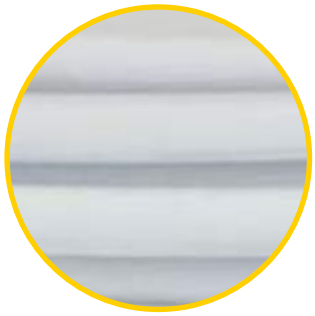
Available colors

NATURAL

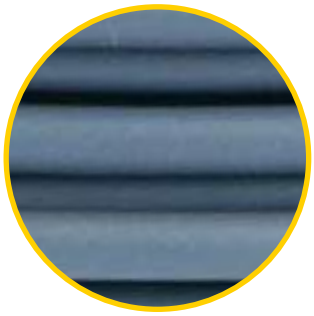


STANDARD BLACK

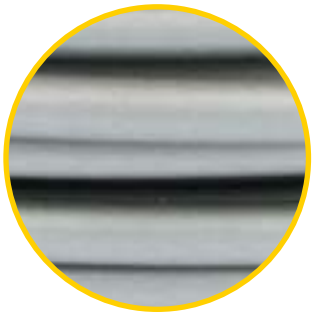
STANDARD WHITE



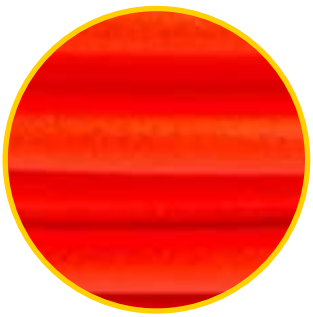
BLUISH WHITE



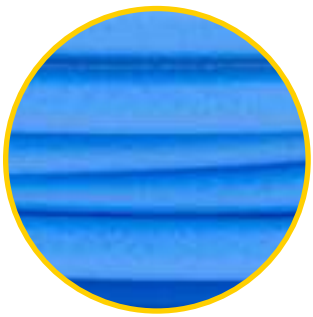
BLUE GREY



SHINING SILVER



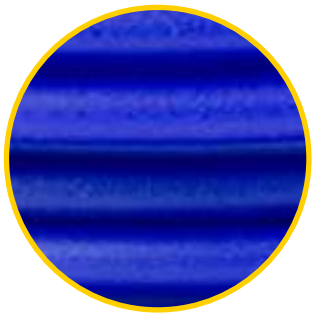
TRAFFIC RED



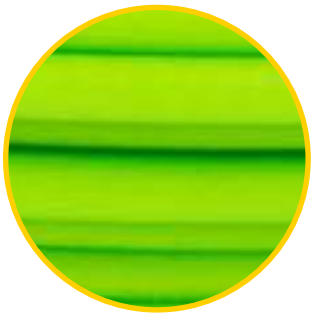
SKY BLUE

SIGNAL YELLOW

DUTCH ORANGE

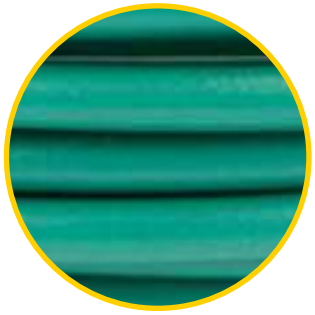


ULTRA MARINE BLUE



INTENSE GREEN

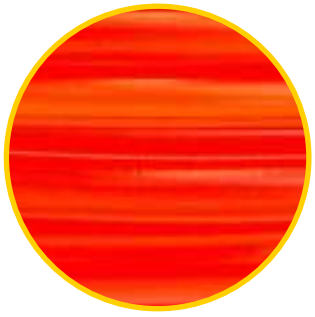
LEAF GREEN



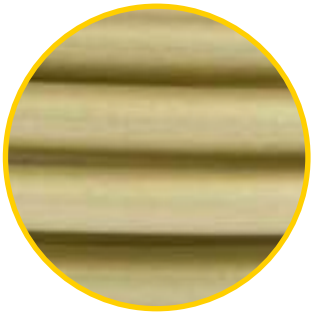
MINT TURQOISE

FLUORESCENT PINK

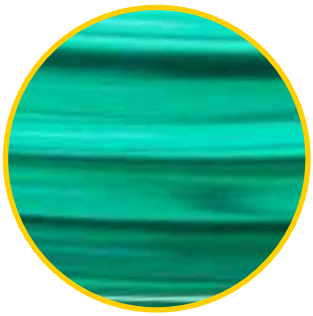
VIOLET TRANSPARENT



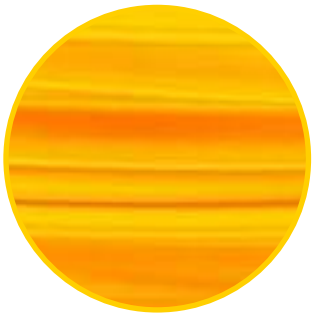
RED TRANSPARENT



PALE GOLD



GREEN TRANSPARENT



ORANGE TRANSPARENT

Specification

Material:	**colorFabb PLA/PHA**
Diameter Tolerance:	**± 0.05 mm**
Density:	**1.210-1.430 g•cm-3**
Glass Transition Temperature:	**55C**

Tips & Tricks

Adviced 3d printing temperature:	**195-220C***
Adviced 3d print speed:	**40 - 100 mm/s**
Advised Heated bed: (optional)	**50-60C**

Build platform

Our PLA/PHA performs well on both heated and non-heated build platforms. When printing on a cold build platform we advise applying masking tape to the build area. The rough surface of the tape will provide enough adhesion for the first layer to stick and print almost without any warping.

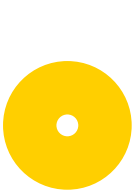
When using a heated build plate, 50-60C platform temperature is advised. To create extra adhesion to the build plate gluestick, 3DLack or other similar products can be used.

Cooling

For PLA/PHA we often use the 100% fan cooling to get best detail and performance on complex overhanging surfaces.
Large models tend to show warping on the corners, printing with less cooling can reduce warping.

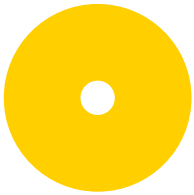
PLA Economy

Design by Ola Sundberg



2,2 kg

4,5 kg



8 kg

2.85 mm

1.75 mm

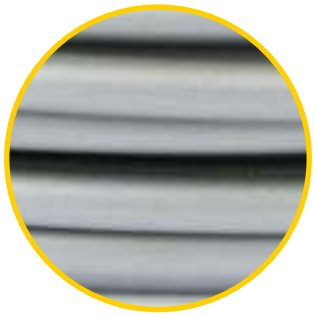
Product Description

PLA Economy is our solution for those users looking for a reliable source of quality material available on large spools. For this material a specific PLA type is selected that features great quality at reasonable costs. Five popular colors have been selected for this range of PLA Economy material.

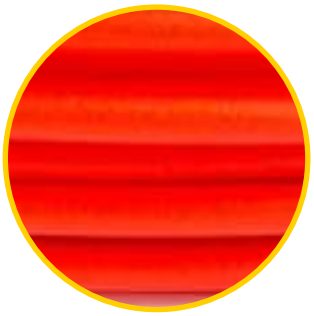
It's the perfect material for high volume users which require reliability and constant performance.

Available colors

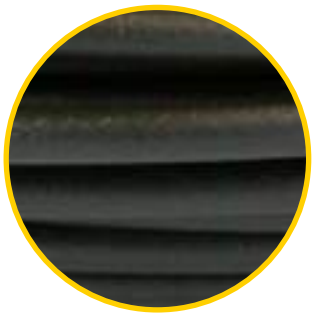
WHITE



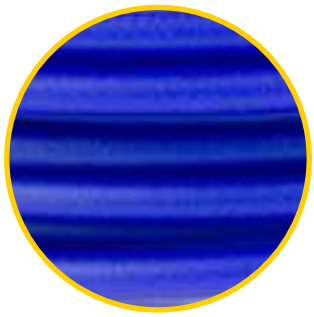
SILVER



RED



BLACK



BLUE

LIGHT GRAY

Specification

Material:	**colorFabb PLA Economy**
Diameter Tolerance:	**± 0.1 mm**
Density:	**1.2-1.3 g●cm-3**
Glass Transition Temperature:	**55-60C**

Tips & Tricks

Adviced 3d printing temperature:	**195-220C***
Adviced 3d print speed:	**40 - 100 mm/s**
Advised Heated bed: (optional)	**50-60C**

Build platform

Our PLA Economy performs well on both heated and non-heated build platforms. When printing on a cold build platform we advise applying masking tape to the build area. The rough surface of the tape will provide enough adhesion for the first layer to stick and print almost without any warping.

When using a heated build plate, 50-60C platform temperature is advised. To create extra adhesion to the build plate gluestick, 3DLack or other similar products can be used.

Cooling

For PLA Economy often we use the 100% fan cooling to get best detail and performance on complex overhanging surfaces.
Large models tend to show warping on the corners, printing with less cooling can reduce warping.

Design by Lukas Rambold

Redesign by colorFabb

nGen

AMPHORA by Eastman

Design by Nervous System

750 g

2200 g

2.85 mm

1.75 mm

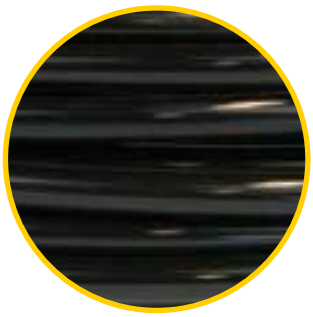
Product Description

nGen is a true all-round material suitable for most day to day 3D printing. At the core of its reliability is the special chemical make-up of Eastman Amphora™ AM3300 3D polymer, which provides a good melt stability. From pellet to filament to 3D print, nGen retains its material properties very well, meaning more stable results with less waste of material and time.

nGen exhibits advanced overhang ability, excellent looks and a large printing temperature range. This empowers a large panel of users to create durable and useful items. With the unique combination of a low processing temperature and an elevated temperature resistance (85C), nGen can quickly print creations that are functional, durable, efficient, and attractive.

Available colors

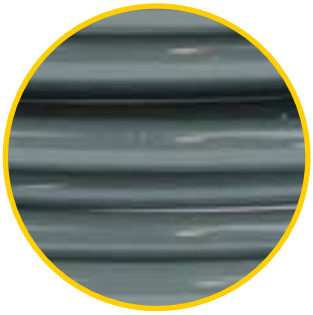
CLEAR



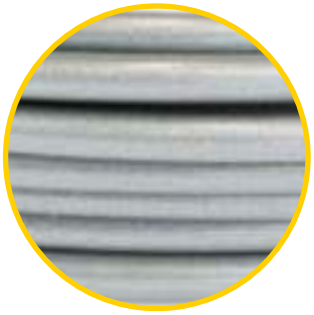
BLACK

WHITE

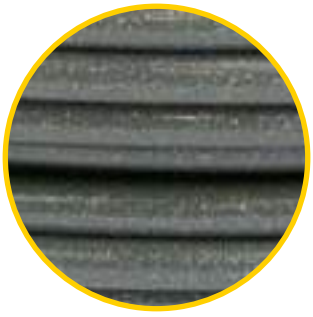
LIGHT GRAY



DARK GRAY

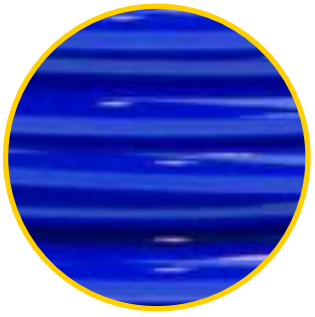


SILVER METALLIC

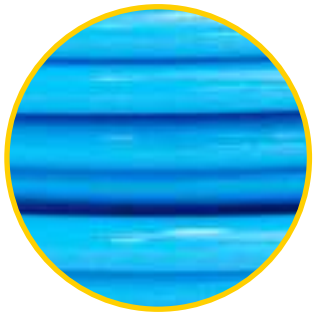


GRAY METALLIC

GOLD METALLIC

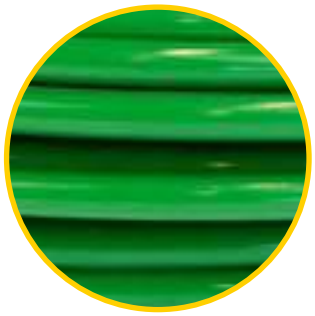


DARK BLUE

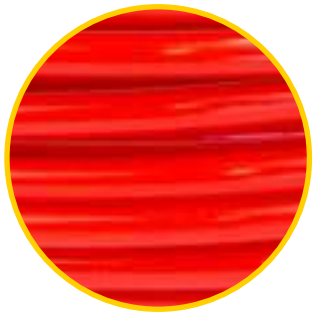


LIGHT BLUE

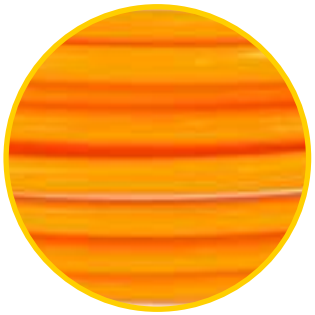
LIGHT GREEN



DARK GREEN



RED



ORANGE

YELLOW

Specification

Material:	**colorFabb nGen**
Diameter Tolerance:	**± 0.05 mm**
Density:	**1.2 g•cm-3**
Glass Transition Temperature:	**85C**

Tips & Tricks

Adviced 3d printing temperature:	**220-240C***
Adviced 3d print speed:	**40-70 mm/s**
Advised Heated bed:	**75-85C**

Build platform

nGen gives best results on a heated build platform, 75C to about 85C is usually needed for proper adhesion to a glass plate. Optionally users could decide to use products such as 3DLac to improve adhesion.
Printing on a cold bed is possible for small to medium sized parts but not advised for large parts that are prone to warping.

Cooling

Too much cooling will create brittle parts with bad layer-to-layer adhesion. Therefor we recommend starting with 50% cooling. It's always best to print with the least amount of cooling to get the best possible layer-to-layer adhesion.

2200 gram spools for specific colors available on request, MOQ may apply. Contact colorFabb for the options.

colorFabb_XT

Design by Eric Harrell

750 g 2200 g

2.85 mm 1.75 mm

Product Description

colorFabb_XT is a tough material perfect for real world applications which demand good mechanical performance and chemical stability. At the core of colorFabb_XT lies Eastman Amphora™ 3D polymer AM1800, a low-odor, styrene-free and BPA free formulation that is uniquely suited for 3D printing applications. With colorFabb_XT, items can be created that are more functional, more durable, more efficient, and attractive. AM1800 complies with certain FDA food contact compliances.

2200 gram spools for specific colors available on request, MOQ may apply. Contact colorFabb for the options.

Available colors

CLEAR

BLACK

WHITE

LIGHT GRAY

DARK GRAY

LIGHT BLUE

LIGHT GREEN

RED

Specification

Material:	**colorFabb_XT**
Diameter Tolerance:	**± 0.05 mm**
Density:	**1.27 g●cm-3**
Glass Transition Temperature:	**75C**

Tips & Tricks

Adviced 3d printing temperature:	**240-260C***
Adviced 3d print speed:	**40-70 mm/s**
Advised Heated bed:	**60-70C**

Build platform

For best performance we recommend printing colorFabb_XT on a heated build platform, 60/70C. After printing, the build plate needs to cool down to about 20-30 C at which point you can remove the printed part.

Cooling

Too much cooling will create brittle parts with bad layer-to-layer adhesion. Therefor we recommend starting with 50% cooling. It's always best to print with the least amount of cooling to get the best possible layer-to-layer adhesion.

colorFabb_HT

Design by colorFabb

700 g **2000 g**

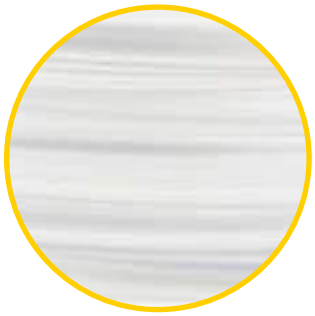
2.85 mm **1.75 mm**

Product Description

Collaborating with Eastman Chemical Company has resulted in various grades of co-polyester materials suited for 3D printing. colorFabb_HT is the toughest and most temperature resistant material of the available rigid co-polyesters.
ColorFabb_HT is uniquely suited for advanced 3D printing users, particular those who need their creations to exhibit excellent durability, toughness and high temperature resistance.

colorFabb_HT is enabled by Eastman Tritan™ copolyester technology.

Available colors

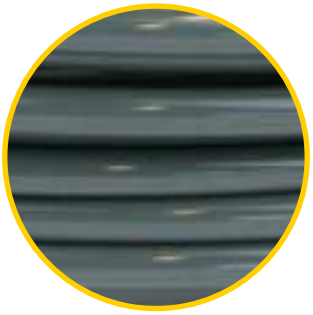


CLEAR

BLACK

WHITE

LIGHT GRAY



DARK GRAY

Specification

Material:	**colorFabb_HT**
Diameter Tolerance:	**± 0.1 mm**
Density:	**1.18 g●cm-3**
Glass Transition Temperature:	**100C**

Tips & Tricks

Adviced 3d printing temperature:	**250-280C**
Adviced 3d print speed:	**30 - 50 mm/s**
Advised Heated bed: (optional)	**100-120C**

Build platform

ColorFabb_HT gives best results on a heated build platform, 100C to about 120C is usually needed for proper adhesion to a glass plate. When this is not enough it's possible to use buildTak plate for stronger adhesion.

Cooling

It's always best to print with the least amount of cooling to get the best possible layer-to-layer adhesion. For colorFabb_HT we would recommend to start with 0% cooling and only use cooling when needed for complex overhanging surfaces or small areas.

Design by Sara Diogo

PA-CF low warp

LUVOCOM® 3F
Additive manufacturing solutions

Design by colorFabb

700 g 2000 g

2.85 mm 1.75 mm

Product Description

PA-CF low warp is the first PA based filament released by colorFabb. It doesn't compromise on printability with the ability to print nearly warp free at ambient temperature. Printers with heated platform will be able to print warp free. This allows many users to process PA-CF low warp material on standard desktop FFF 3D printers.

PA-CF low warp has been modified to lower the uptake of moisture and slow down the time it takes to fully saturate by 4 times. In practice this means the filament is quite forgiving and users should be able to print with the material without noticing extreme influences of moisture uptake.

PA-CF Low Warp allows continues use at 120°C while retaining sufficient properties for the intended application.

PA-CF low warp is a result of the cooperation between LEHVOSS group and colorFabb. Both companies share the vision to develop high strength engineering materials, without compromising on printability.

Design by Emancarrillo

PA-CF low warp

Specification

Material:	**PA-CF low warp**
Diameter Tolerance:	**± 0.1 mm**
Density:	**1.4 g•cm-3**
Continuous use temperature:	**120C**

Tips & Tricks

Adviced 3d printing temperature:	**260-280C**
Adviced 3d print speed:	**30 - 40 mm/s**
Advised Heated bed: (optional)	**ambient - 50C**

Build platform

The material shows good results when printed at ambient temperature, or cold bed. For some model geometries or high density infill parts a heated bed at 40C / 50C is advised. Using a brim will help when printing on a cold bed and heated bed. The material has been tested on buildTak and glass bed. When printing on glass bed we advise using 3DLac to obtain better adhesion to the plate.

Cooling

As always, less cooling results in better layer-to-layer adhesion, more cooling gives better result on complex overhanging surfaces. We would recommend a 50% fan speed as default and use less fan speed if the print geometry allows for this.

PA-NEAT

LUVOCOM® 3F
Additive manufacturing solutions

Design by Shira

750 g

2.85 mm 1.75 mm

Product Description

PA Neat is our new highly functional polyamide (nylon) grade. PA NEAT allows continues use at 120°C while retaining sufficient mechanical properties and thus highly temperature resistant and tough. This makes it a perfect material for the professional user to make durable prints that need to perform.

PA Neat barely warps and is thus ideally suited for professional users who need their filament to perform.

Due to high stiffness of 2.85mm filament we recommend users to use spoolmounts which have some friction between spool and holder, to prevent unspooling of filament.

Design by Ratm3at

PA-NEAT low warp

Specification

Material:	**Colorfabb PA NEAT**
Diameter Tolerance:	**± 0.1 mm**
Density:	**1.14 g/cm3**
Continuous use temperature:	**120C**

Tips & Tricks

Adviced 3d printing temperature:	**265-290C**
Adviced 3d print speed:	**30 - 40 mm/s**
Advised Heated bed: (optional)	**ambient - 50C**

Build platform

The material shows good results when printed at ambient temperature, or cold bed. For some model geometries or high density infill parts a heated bed at 40C / 50C is advised. Using a brim will help when printing on a cold bed and heated bed. The material has been tested on buildTak and glass bed. When printing on glass bed we advise using 3DLac to obtain better adhesion to the plate.

Cooling

As always, less cooling results in better layer-to-layer adhesion, more cooling gives better result on complex overhanging surfaces. We would recommend a 50% fan speed as default and use less fan speed if the print geometry allows for this.

nGen_FLEX

AMPHORA by Eastman

Design by colorFabb

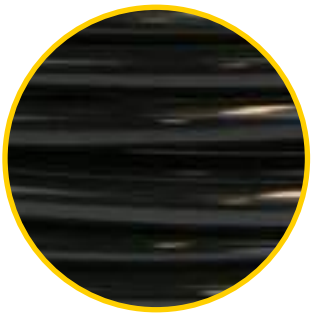
650 g

2.85 mm 1.75 mm

Product Description

nGen_FLEX is engineered as a semi-flexible material which allows most users to print at regular print speeds, cutting down build times compared to other very flexible filaments. Also bowden style 3D printers, 1.75mm and 2.85mm, will be able to push this filament through without much trouble. nGen_Flex is made with Eastman Amphora 3D polymer FL6000, which is uniquely suited for 3D printing.
nGen_FLEX is temperature resistant to about 130C. That means 3D printed objects can be steam sterilized at 121C which is a great asset for medical / laboratory environments.

Available colors



BLACK

DARK GRAY

CLEAR

Specification

Material:	**colorFabb nGen_FLEX**
Diameter Tolerance:	**± 0.1 mm**
Density:	**1.13 g•cm-3**
Temperature resistance:	**130C**

Tips & Tricks

Adviced 3d printing temperature:	**240-260C**
Adviced 3d print speed:	**30 - 60 mm/s**
Advised Heated bed:	**80C + BuildTak / LokBuild / coroPad**

Build platform

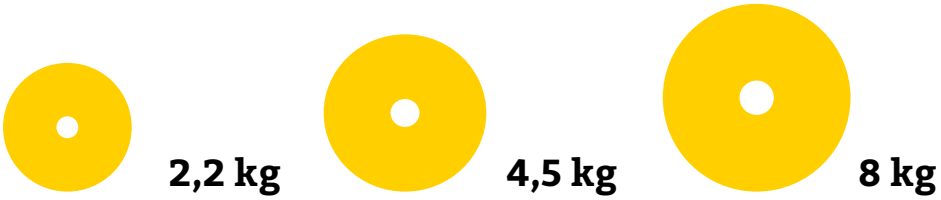
nGen_FLEX gives best results on a buildTak, coroPad or LokBuild covered buildplate, heated at around 80C. Make sure the distance between nozzle and buildplate is not too close, the first layer should not be squeezed too much to make removal of parts easier. After printing, cooling down to room temperature and reheating to 85C can make part removal easier.

Cooling

It's always best to print with the least amount of cooling to get the best possible layer-to-layer adhesion. For better performance on complex overhanging surfaces or small areas, cooling is needed. In case of nGen_FLEX we recommend starting with 50% cooling.

PETG Economy

Design by PRATRIK and Chris Dalby



2.85 mm

1.75 mm

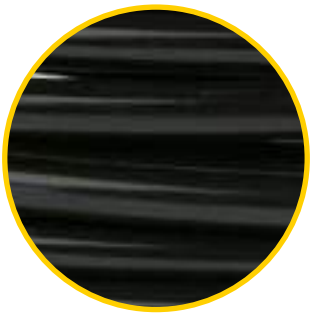
Product Description

PETG Economy is our answer to those users looking for a reliable source of quality material available on large spools. For this material a specific PETG type is selected which features great quality at reasonable costs. Three popular colors have been selected for this range of PETG Economy material.

It's the perfect material for high volume users which require reliability and constant performance.

Available colors

WHITE

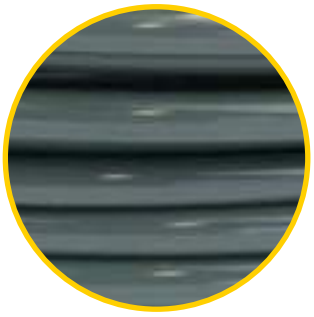


BLACK

RED

CLEAR

LIGHT GRAY



DARK GRAY

Specification

Material:	**colorFabb PETG Economy**
Diameter Tolerance:	**± 0.1 mm**
Density:	**1.28 g•cm-3**
Glass Transition Temperature:	**70C**

Tips & Tricks

Adviced 3d printing temperature:	**235-255C***
Adviced 3d print speed:	**30 - 50 mm/s**
Advised Heated bed:	**70-80C**

Build platform

Our PETG Economy performs well heated build platforms, 70-80C platform temperature is advised for good adhesion to a glass plate. Additionally users might want to apply products such as 3DLac to increase adhesion of the 1st layer to the build platform.

Cooling

75/100% fan cooling for best aesthetics, this gives best performance on overhangs and small details. For best mechanical performance try printing with the least amount of cooling needed, for optimal layer adhesion.

SPECIALS

Design by gCreate

Our range of special filaments has grown over the past few years. It now features metal powder infused filaments, natural fiber infused filaments. Next to these aesthetical filaments we also offer XT-CF20 which is a one of a kind carbon fiber reinforced XT copolyester filament.

BRONZEFILL

Design by gCreate

750 g 1500 g

2.85 mm 1.75 mm

bronzeFill is a special type of PLA filament which is infused with bronze powder. It will print with settings very similar to normal PLA filament, so users will be able to get a first print quickly.
When the 3D printer is finished with the model, the surface will look matte and dull. With some post processing such as sanding and polishing the parts will start to look like real polished metal.
Apart from the unique aesthetics of the material, it's also three times heavier than a regular PLA material. The added weight makes every print feel much more real and valuable.

Specification

Material:	**colorFabb bronzeFill**
Diameter Tolerance:	**± 0.05 mm**
Density:	**3.9 g•cm-3**
Glass Transition Temperature:	**55C**

Tips & Tricks

Adviced 3d printing temperature:	**195-220C**
Adviced 3d print speed:	**40 - 80 mm/s**
Advised Heated bed: (optional)	**50-60C**

COPPERFILL

Design by American Museum of Natural History

750 g 1500 g | 2.85 mm 1.75 mm

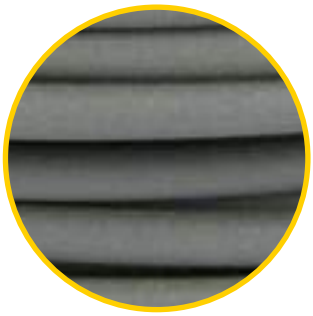
copperFill is a special type of PLA filament which is infused with copper powder. It will print with settings very similar to normal PLA filament, so users will be able to get a first print quickly.
When the 3D printer is finished with the model, the surface will look matte and dull, quite similar to terracotta. With some post processing such as sanding and polishing the parts will start to look like real polished metal.
Apart from the unique aesthetics of the material, it's also three times heavier than a regular PLA material. The added weight makes every print feel much more real and valuable.

Specification

Material:	**colorFabb copperFill**
Diameter Tolerance:	**± 0.05 mm**
Density:	**3.9 g•cm-3**
Glass Transition Temperature:	**55C**

Tips & Tricks

Adviced 3d printing temperature:	**195-220C**
Adviced 3d print speed:	**40 - 80 mm/s**
Advised Heated bed: (optional)	**50-60C**



STEELFILL

Design by Geoff.W /Hex3D

750 g 1500 g | 2.85 mm 1.75 mm

steelFill is a special type of PLA filament which is infused with stainless steel powder. It will print with settings very similar to normal PLA filament, so users will be able to get a first print quickly.

When the 3D printer is finished with the model, the surface will look matte and dull. With some post processing such as sanding and polishing the parts will start to look like real polished metal.

SteelFill is three times heavier than a regular PLA material and it has magnetic properties which gives users new possibilities.

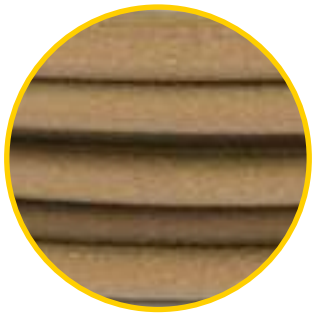
SteelFill is abrasive for brass nozzles, therefor it's recommended to use a wear resistant nozzle.

Specification

Material:	**colorFabb steelFill**
Diameter Tolerance:	**± 0.05 mm**
Density:	**3.13 g●cm-3**
Glass Transition Temperature:	**55C**

Tips & Tricks

Adviced 3d printing temperature:	**195-220C**
Adviced 3d print speed:	**40 - 80 mm/s**
Advised Heated bed: (optional)	**50-60C**



CORKFILL

Design by Seechless

650 g

2.85 mm

1.75 mm

corkFill is a special type PLA filament which is infused with very fine cork fibers, which make up for about 30% of the content. It will print with similar settings to PLA and will work with a stock 0.4mm nozzle.
Compared to woodFill, corkFill has a much smoother texture and has a great haptic property. The color is a dark deep brown, but with a matte finish.

Users are recommended to keep good flow of material while printing, 0.2m – 0.27mm layer height at 50 mm/s – 65 mm/s will serve as a good starting point.

Specification

Material:	**colorFabb corkFill**
Diameter Tolerance:	**± 0.05 mm**
Density:	**1.18 g•cm-3**
Glass Transition Temperature:	**55C**

Tips & Tricks

Adviced 3d printing temperature:	**210-230C**
Adviced 3d print speed:	**40 - 60 mm/s**
Advised Heated bed: (optional)	**50-60C**

WOODFILL

Design by Print +

600 g 1800 g

2.85 mm 1.75 mm

woodFill is a special type PLA filament which is infused with very fine wood fibers, which make up for about 30% of the content. It will print with similar settings to PLA and will work with a stock 0.4mm nozzle.

The texture of printed parts are one of a kind, objects no longer look like shiny plastic, but have a great matte texture and the color of pine wood.

Users are recommended to keep good flow of material while printing, 0.2m – 0.27mm layer height at 50 mm/s – 65 mm/s will serve as a good starting point.

Specification

Material:	**colorFabb woodFill**
Diameter Tolerance:	**± 0.05 mm**
Density:	**1.15 g•cm-3**
Glass Transition Temperature:	**55C**

Tips & Tricks

Adviced 3d printing temperature:	**195-220C**
Adviced 3d print speed:	**40 - 80 mm/s**
Advised Heated bed: (optional)	**50-60C**

GLOWFILL

Design by Makerbot

750 g

2.85 mm **1.75 mm**

As the name suggests, glowFill is a glow in the dark filament. With this filament it's possible to make your own glow in the dark creations.

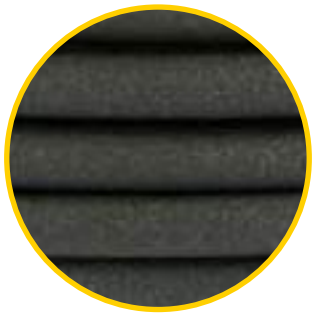
A special highly concentrated phosphorescent pigment is incorporated into our PLA/PHA compound. It will print like any of our other PLA/PHA filaments, so users should be able to get a print quickly.

Specification

Material:	**colorFabb glowFill**
Diameter Tolerance:	**± 0.05 mm**
Density:	**1.210-1.430 g·cm-3**
Glass Transition Temperature:	**55C**

Tips & Tricks

Adviced 3d printing temperature:	**195-220C**
Adviced 3d print speed:	**40 - 100 mm/s**
Advised Heated bed: (optional)	**50-60C**



XT-CF20

AMPHORA by Eastman

Design by Daniel Noree

750 g

2200 g

2.85 mm

1.75 mm

colorFabb XT-CF20 is a copolyester based carbon fiber composite material that is based on the unique Amphora AM1800 3D polymer from Eastman Chemical and is loaded with no less than 20% specifically sourced carbon fibers suitable for 3D Printing.

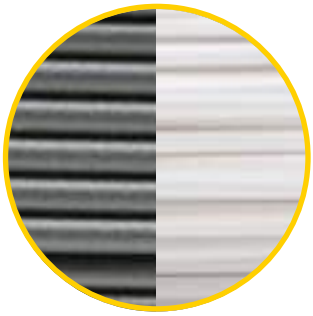
A special point of attention is the abrasive nature of the carbon fibers. In general these fibers will accelerate the nozzle-wear of brass nozzles, much faster than unfilled filaments. There colorFabb recommends to use wear resistant nozzles.

Specification

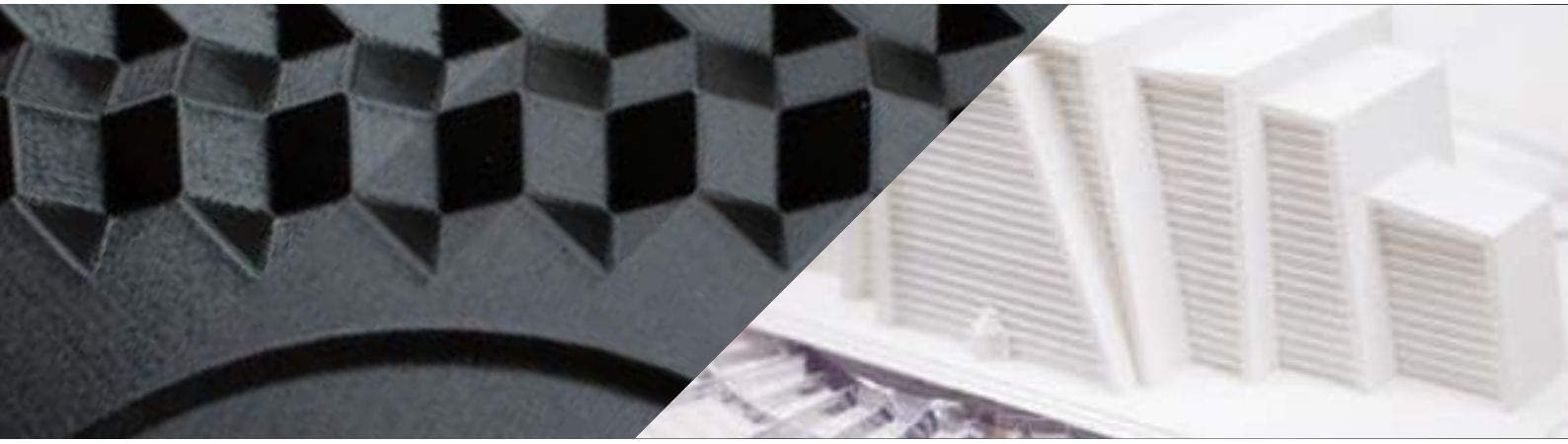
Material:	**colorFabb XT-CF20**
Diameter Tolerance:	**± 0.05 mm**
Density:	**1.27 g•cm-3**
Glass Transition Temperature:	**75C**

Tips & Tricks

Adviced 3d printing temperature:	**240-260C**
Adviced 3d print speed:	**40 - 70 mm/s**
Advised Heated bed:	**60-70C**



PLA SEMI-MATTE
BLACK / WHITE



Design by colorFabb

Design by ibudmen

750 g **2200 g**

2.85 mm **1.75 mm**

This semi-matte PLA filament eliminates the glossy appearance seen on most PLA 3D prints. The highlights on the surface will be less visible, resulting in an overall cleaner and much higher quality look. If you're looking to upgrade your 3D printed projects to the next level, our PLA semi matte will do the trick.

Specification

Material:	**PLA Semi Matte Black**
Diameter Tolerance:	**± 0.05 mm**
Density:	**1.210-1.430 g·cm-3**
Glass Transition Temperature:	**55C**

Tips & Tricks

Adviced 3d printing temperature:	**195-220C**
Adviced 3d print speed:	**40 - 100 mm/s**
Advised Heated bed:	**50-60C**

LW-PLA
BLACK / NATURAL

750 g **2200 g**

2.85 mm **1.75 mm**

The first filament of its kind using an active foaming technology to achieve light weight, low density PLA parts. At around 230C this material will start foaming, increasing its volume by nearly 3 times.

Users can decrease material flow by 65% to achieve light weight parts, or use the expanding properties to effectively reduce print time by using big layer heights or single extra thick perimeters. Learn more about how to use this material

Specification

Material:	**LW-PLA**
Diameter Tolerance:	**± 0.1 mm**
Density:	**0.403-1.430 g·cm-3**
Glass Transition Temperature:	**55C**

Tips & Tricks

Adviced 3d printing temperature:	**195-260C**
Adviced 3d print speed:	**40 - 100 mm/s**
Advised Heated bed:	**50-60C**

TOUGH PLA
BLACK / WHITE

750 g

2200 g

2.85 mm

1.75 mm

With Tough PLA we once again take PLA and enhance it. If you like PLA, but think it needs more toughness and lower stiffness? Then Tough PLA is the filament you are looking for. It can be printed at a slightly higher temperature than regular PLA, but it still retains the ease of printing you are used to.

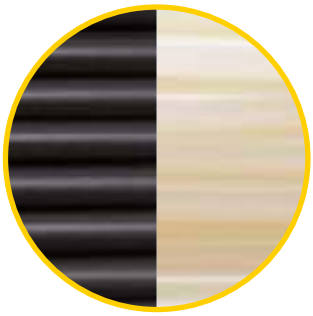
The custom blend of raw materials used for Tough PLA results in a less brittle filament with a higher-than-usual impact strength.

Specification

Material:	**Tough PLA**
Diameter Tolerance:	**± 0.1 mm**
Density:	**1.210-1.430 g·cm-3**
Glass Transition Temperature:	**55C**

Tips & Tricks

Adviced 3d printing temperature:	**210-230C**
Adviced 3d print speed:	**40 - 50 mm/s**
Advised Heated bed:	**50-60C**



varioShore TPU
BLACK / NATURAL

750 g **2200 g**

2.85 mm **1.75 mm**

Our varioShore TPU has a few main distinctive features: its variable shore hardness, reduced weight and density and soft touch. varioShore TPU allows users to vary the density of the material by adjusting temperature and material throughput (speed & layerheight). At temperatures between 200 and 250C the materials will start to expand to roughly 1.4-1.6 times its original volume. This means the material can be printed at low flow rates (60-70%), to compensate the active foaming, which in return gives very soft printed parts. Between 190-200C the material can be printed without foaming, resulting in different haptics and harder prints compared to foamed samples.

Developed in co-operation with Lubrizol, varioShore TPU is a material ideally suited for printing insoles and cosplay parts for instance.

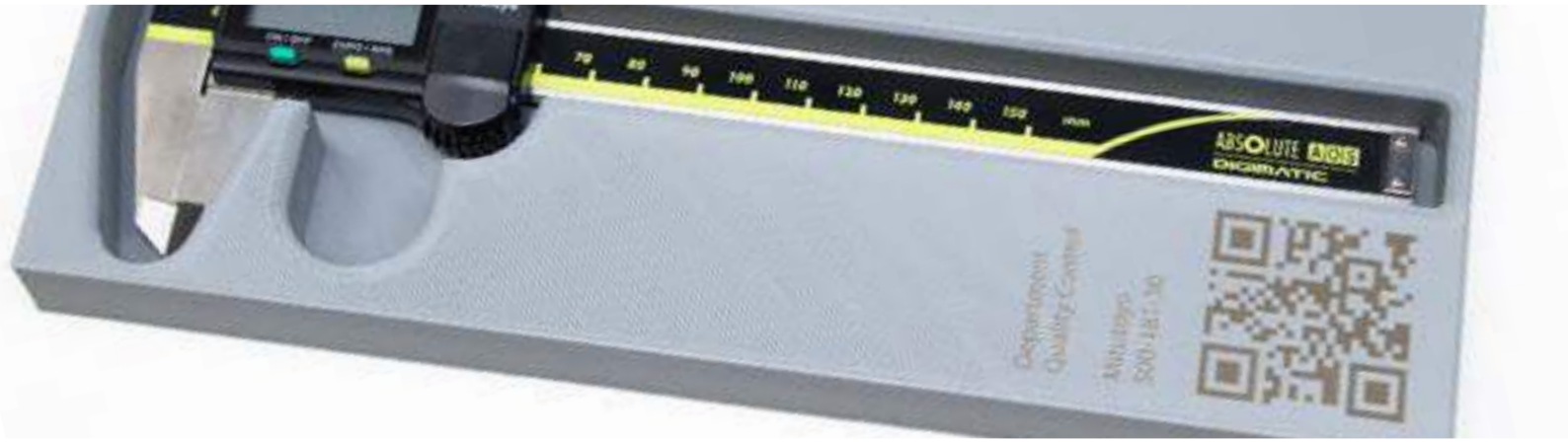
Specification

Material:	**varioShore TPU**
Diameter Tolerance:	**± 0.1 mm**
Density:	**1.2-1.3 g·cm-3**
Glass Transition Temperature:	**-20C**

Tips & Tricks

Adviced 3d printing temperature:	**190-250C**
Adviced 3d print speed:	**20 - 30 mm/s**
Advised Heated bed:	**20-40C**

LASER MARKING PLA



750 g

2.85 mm **1.75 mm**

There are materials made for general use and there are materials for a single application. Laser Marking PLA belongs to the latter category, but what an application it is! This unique material is optimized to be used with laser engravers within a 980-1064 nm wavelength. The material has been tested successfully with a Nd:YAG- and fiberlasers. Laser marking PLA will not work with CO2 lasers.

Laser marking has various advantageous over conventional marking technologies:

- Markings are permanent, waterproof, wear and heat resistant, lightfast and resistant to chemicals.
- Flexibility in marking design.
- No pre or post-treatment required.

Specification

Material:	**Laser Marking PLA**
Diameter Tolerance:	**± 0.1 mm**
Density:	**1.210-1.430 g·cm-3**
Glass Transition Temperature:	**55C**

Tips & Tricks

Adviced 3d printing temperature:	**195-220C**
Adviced 3d print speed:	**40 - 100 mm/s**
Advised Heated bed:	**50-60C**

DPA-100 / DPA-Detergent

500 g

2.85 mm

1.75 mm

DPA-100 is a polyacrylate support material which features the unique ability to dissolve in a mild alkaline solution. Unlike PVA our DPA-100 is less sensitive to moisture uptake and offers better shelf-life and print performance over time.
Our DPA-100 support material is engineered to match with a variety of materials which can't be supported by PVA due to bad adhesion to the build material. DPA-100 shows strong adhesion to PETG, ABS, ASA, PC and PA materials.

This means the DPA-100 is uniquely suited to match our co-polyester filament offering, nGen, colorFabb_XT, colorFabb_HT and PETG. DPA-100 is not recommended for use with PLA as build material due to the relatively high water temperature needed for dissolution.

Specification

Material:	**DPA-100 / DPA-Detergent**
Diameter Tolerance:	**± 0.1 mm**
Density:	**-**
Glass Transition Temperature:	**-**

Tips & Tricks

Adviced 3d printing temperature:	**230-250C**
Adviced 3d print speed:	**20 - 30 mm/s**
Advised Heated bed:	**90-110C**

LEHVOSS

LUVOCOM® 3F
Additive manufacturing solutions

750 g

2.85 mm 1.75 mm

Product Description

Our LUVOCOM® 3F Filaments are specially designed to provide an easy-to-print experience and to achieve another level of properties and quality. All our products are thoroughly tested in our development laboratory, which ensures that they will work in all the systems available on the market.

LUVOCOM 3F PAHT® is a high-temperature-based material. It has the strength of a PA6 without sacrificing any of its printability. The water uptake is half and its absorption rate is four times slower when compared with standard PA6. No heated chamber is required and no warping is observed. It's compatible with HIPS and PVOH support materials.

LUVOCOM® 3F PET
is our entry-level product based on a polyethylene terephthalate material. It is the easiest fiber-filled material to print on the market. There are no issues with retraction and no need for a heating chamber. It exhibits a superb surface finish straight from the printer, thus reducing the need for post-processing. It can be post-treated to enhance its mechanical properties. It is compatible with HIPS as a break-away or soluble support.

LUVOCOM 3F PAHT 9825 NT

LUVOCOM 3F PET CF 9780 BK

IGUS

750 g

2.85 mm

1.75 mm

Product Description

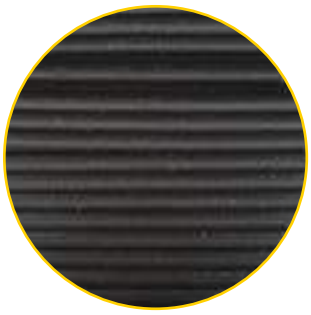
3D printed parts from igus® are made from stable and wear-resistant iglidur® high-performance plastics. They guarantee a long service life of the individual wear-resistant parts due to an exceptionally high degree of resistance to abrasion.

The range includes special filaments for 3D printing with the fused deposition modelling/fused filament fabrication method (FDM/FFF) and plastics for selective laser sintering, whereby a 3D printing service is also offered for prototypes, small batches or small quantities of complex machine components. Series up to a quantity of 1000 have already been printed.

The igus® 3D printing materials are especially advantageous in moving applications due to their abrasion resistance and durability with a tested service life.

IGLIDUR I150

IGLIDUR I180



IGLIDUR I180-BL

Ninjatek

750 g

1000 g

2.85 mm

1.75 mm

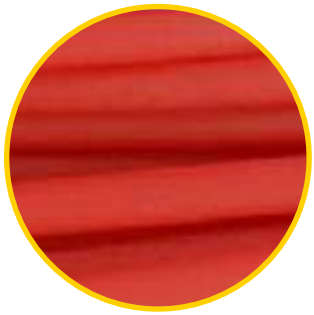
Product Description

NinjaTek, brand of Fenner Drives, is a high performance additive manufacturing material supplier. Ninjatek is the leading producer of flexible filament in the 3D printing industry. Its popularity was built on unique performance characteristics and consistent product quality. As a division of Fenner Drives it leverages 50 years of extrusion and manufacturing expertise with a unique expertise in polyurethane materials.
colorFabb is proud to be the official Ninjatek partner in Europe. We offer the full range of Ninjatek filaments, distributed from our warehouse in the Netherlands.

Cheetah

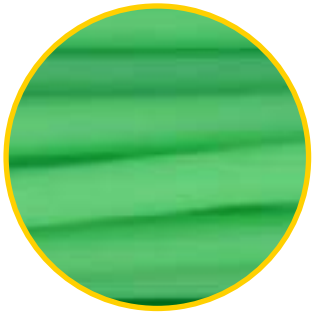
SNOW

MIDNIGHT



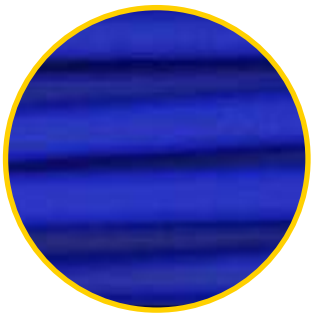
FIRE

FLAMINGO

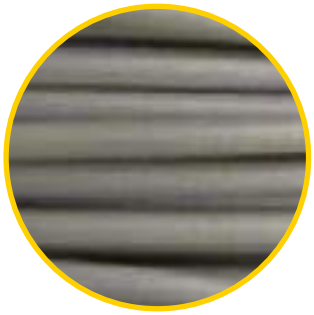


GRASS

LAVA



SAPHIRE



STEEL

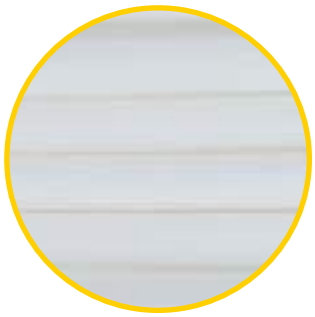
WATER

Product Description - Cheetah

Cheetah™ flexible filament is the fastest and easiest to print flexible filament on the market. The focus in development of this material was on optimizing the user experience.

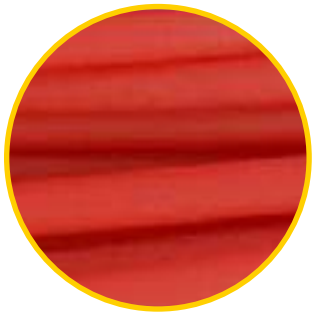
The result is a filament that is printable across all types of desktop 3D printers at ABS and PLA speeds, many times twice the speed of other flexible materials on the market.

Ninjaflex



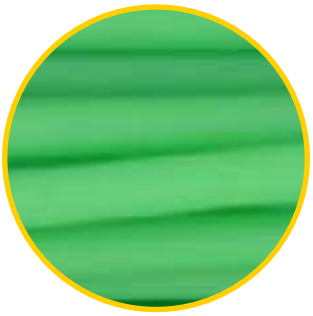
SNOW

MIDNIGHT

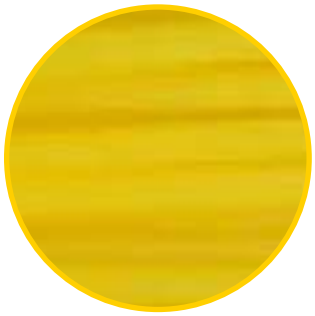


FIRE

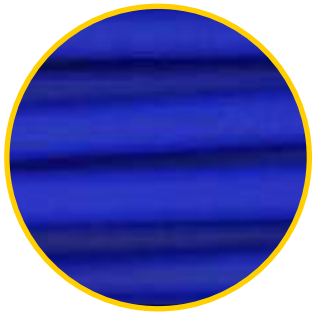
LAVA



GRASS



SUN



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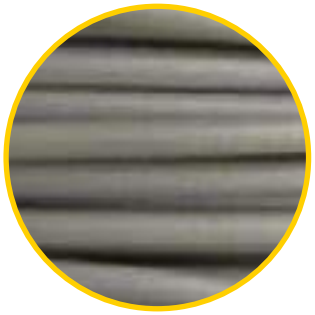


STEEL

WATER

Product Description - Ninjaflex

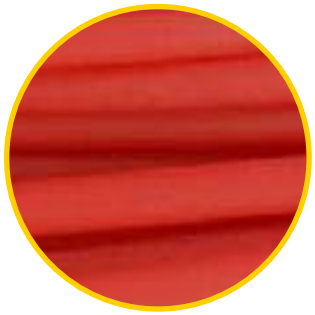
NinjaFlex flexible filament leads the industry thanks to its superior flexibility and longevity compared to non-polyurethane materials. Its consistency in diameter and ovality (roundness) outpaces other polyurethane materials.

Made from a specially formulated thermoplastic polyurethane (TPU) material, this patented technology boasts a low-tack, easy-to-feed texture. The result is uniquely flexible, strong prints ideal for direct-drive extruders.

Armadillo

SNOW

MIDNIGHT



FIRE

WATER

Product Description - Armadillo

Tired of fragile 3D printed parts? Armadillo 3D printing filament is a perfect alternative to some of the most common rigid materials on the market.

Made from a specially formulated thermoplastic polyurethane (TPU), its advantages against PLA and ABS lie in its printability and toughness. Armadillo is an excellent material to use for bridging with virtually no warping issues. When you need a rigid product that can withstand wear and tear, Armadillo's resistance to fracturing makes it a perfect replacement.

Eel

Product Description - EEL

Eel 3D printing filament is NinjaTek's first truly conductive, flexible filament.

Eel's 355% elongation allows for repeated movement without wear or cracking. You'll produce reliable, high quality prints due to the consistent diameter.

NinjaTek's Eel filament is chemical resistant to a variety of materials.

Suggested applications: Electronic Traces, Integrated flexible wire, Anti Static Grippers, Conductive Wearable Product

colorFabb B.V.
Bremweg 7
5951 DK Belfeld
The Netherlands

Visit our website:
colorfabb.com
learn.colorfabb.com

Contact us by phone:
Tel + 31 (0)77 - 466 40 15

Contact us by e-mail:
sales@colorfabb.com
support@colorfabb.com

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