FORM FUTURA®

Index
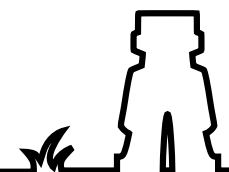
Established in 2012

- The first real 3D printing filament brand
  - Founded in Amsterdam
  - Made in the Netherlands
  - Worldwide distribution

Ideal partner for industry

- Wide variety of high-end engineering materials
- Fully customizable solutions
  - Customizable materials & colors
  - Customizable spool sizes

Progressive support solutions

- Proactive sharing of knowledge
- Comprehensive online support environment
  - E-learning
  - Extensive FAQ
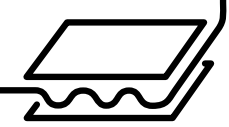- Open download portal for data, footage, content, and more

Sustainability

- Front-runner in sustainable packaging
  - Fully recyclable packaging
  - Cardboard spools & climate neutral boxes
  - FSC certified
- Focus on green initiatives
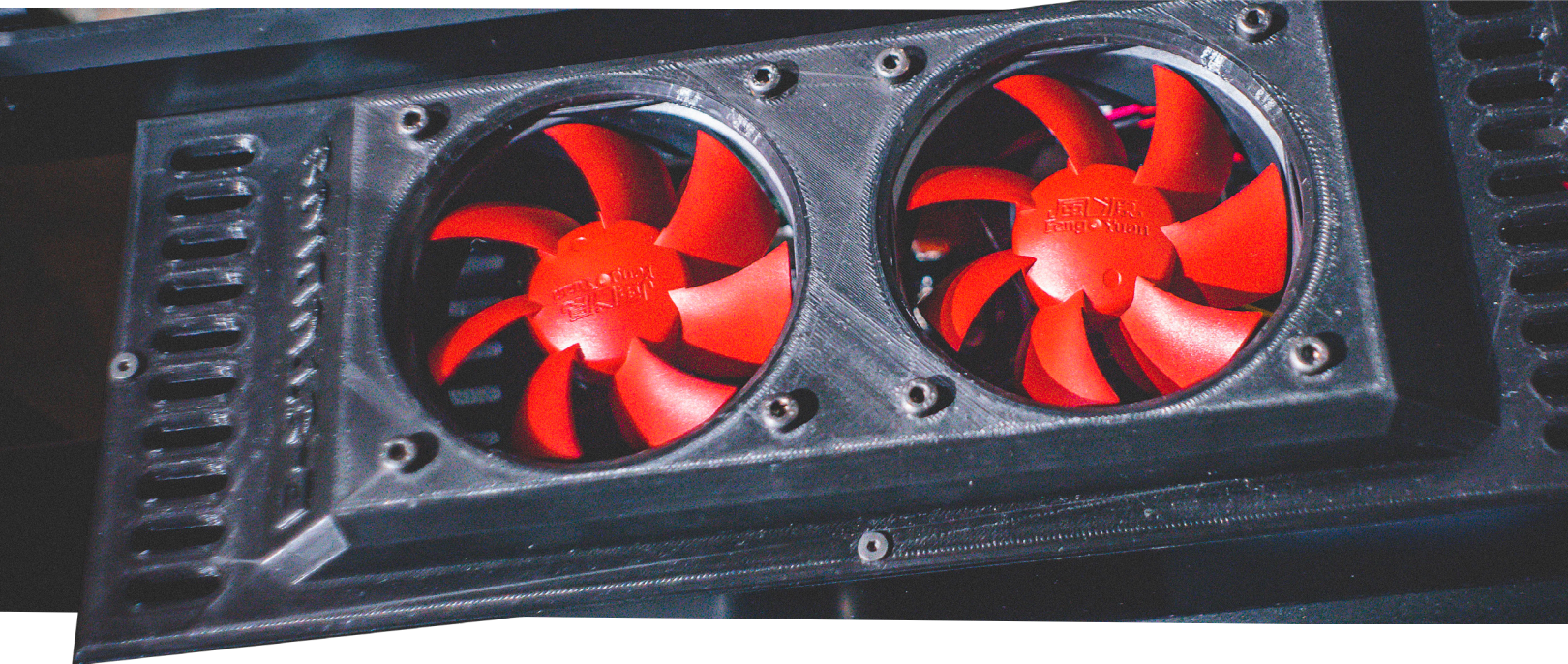
Product leadership & innovation

- Continuous focus on adapting new industry-leading materials to the field of 3D printing

TitanX

TitanX is a high-end engineering filament with ABS (acrylonitrile butadiene styrene) as the main component. The formulation of TitanX is enhanced with added polymers, binding agents and impact modifiers resulting in an engineering filament that combines exceptional mechanical properties with optimized interlayer adhesion and virtually no warping.

TitanX is used by industries worldwide for creating functional prototypes and end-use parts.

Applications
- Functional prototyping
- End-use parts
- Fit testing
- Engineering parts
- Short-run manufacturing

Key Features
- Good surface quality
- Strongly improved mechanical properties
  - >65% more impact resistant than regular ABS
- Minimal warping, excellent interlayer adhesion, and seamless build plate adhesion
- Precise 3D printing with remarkable fine detail
- Vicat softening temperature of 97°C
- Compatible with Helios Support for complex multi-extrusion 3D printing
- Nearly odorless processing and no unpleasant styrene smell when being 3D printed

Available colors

Standard weights
50gr
750gr
2300gr
4500gr

More information

ApolloX

ApolloX is a high-end engineering filament with ASA (acrylonitrile styrene acrylate) as the main component. The formulation of ApolloX is enhanced with added polymers, binding agents and impact modifiers resulting in an engineering filament that combines exceptional mechanical properties with optimized interlayer adhesion and limited warping.

ApolloX is used by industries worldwide for creating UV and weather resistant functional parts with nearly injection molded precision.

Applications
- Functional (outdoor) prototyping
- End-use parts for outdoor applications
- Automotive parts
- Engineering parts
- Short-run manufacturing

Key Features
- High impact resistance
- UV and weather resistant
  - Excellent resistance to changing weather conditions and UV light
- Good mechanical properties
- Minimal warping, excellent interlayer adhesion, and seamless build plate adhesion
- Detailed 3D printing with nearly injection moulded precision
- Vicat softening temperature of 98°C
- Compatible with Helios Support for complex multi-extrusion 3D printing
- Nearly odorless processing and no unpleasant styrene smell when being 3D printed

Available colors

Standard weights
50gr
750gr
2300gr
4500gr

More information

Centaur PP

Centaur PP (Polypropylene) is a versatile engineering plastic that combines excellent mechanical properties with good chemical- and electrical resistance. Centaur PP is dishwasher proof, microwave safe and meets various EU and US food contact specifications.

Applications
- Snap-fit assemblies
- Functional prototypes
- Durable housings
- Living hinges
- Packaging
- Form and fit testing
- Electrical insulator
- Short-run manufacturing

Key Features
- Food contact compliant
- Dishwasher proof and microwave safe
- High wear-, abrasion- and fatigue resistance
- Seamless interlayer adhesion
- Good chemical resistance
- High electrical resistance
- Semi-flexible
  - Can stretched up to >600% before breaking
  - Shore hardness of D50
- Low density of 0.9 g/cc resulting in lightweight prints

Available colors

Standard weights
50gr
500gr
1500gr
3500gr

More information

Pegasus PP Ultralight

Pegasus PP (Polypropylene) is an ultralightweight engineering filament that is nanotechnology enhanced with hollow glass microspheres. With a material density of 0.75 g/cc Pegasus PP is most likely the lightest 3D printing material available.

Applications
- Automotive parts
- Functional prototypes
- Floating applications
- End-use parts
- Short-run manufacturing

Key Features
- Extremely lightweight
  - ≥ 20% lighter than average PP
  - ≥ 40% lighter than average PLA
- Very high strength to weight ratio
- Good wear-, abrasion- and fatigue resistance
- Seamless interlayer adhesion
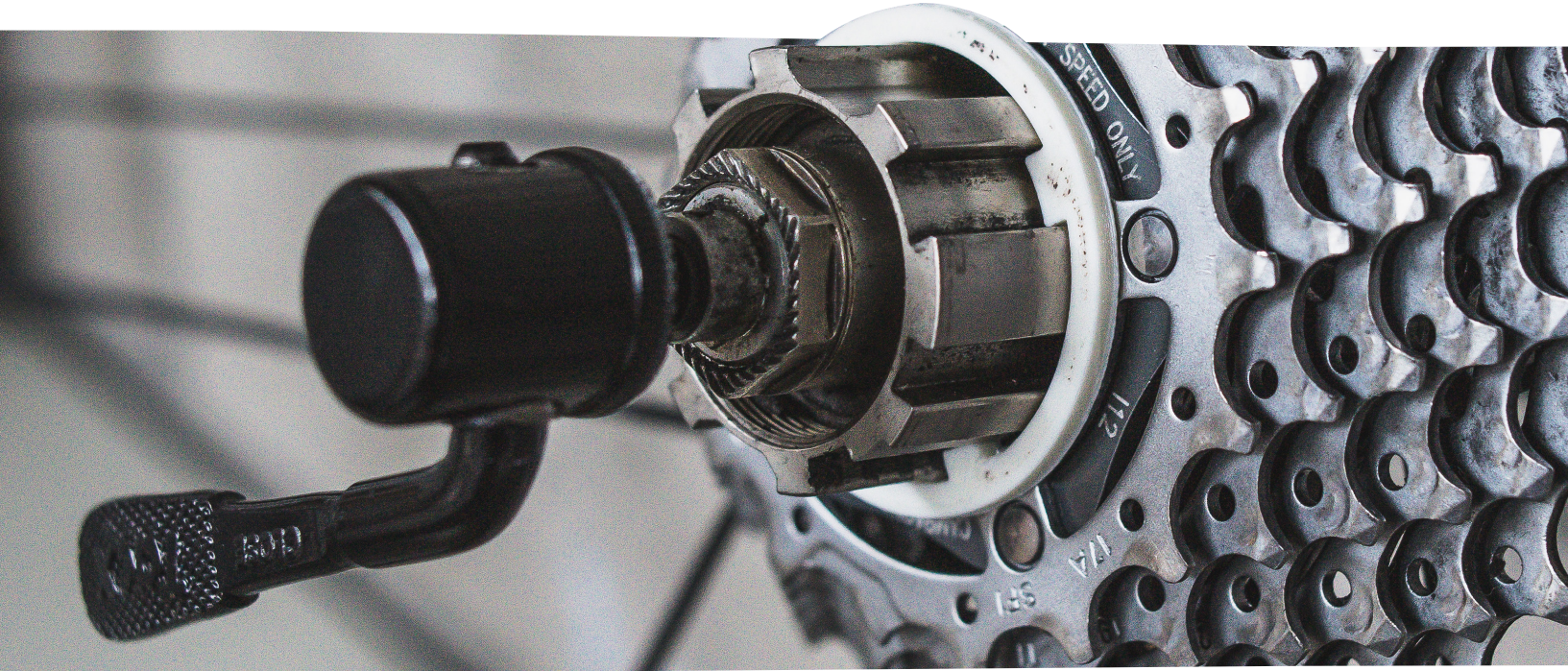- Good chemical resistance

Available colors

Standard weights
50gr
500gr

More information

STYX-12 NYLON

STYX-12 is a PA12 (polyamide) industrial-grade engineering plastic that offers an impressive combination of mechanical-, chemical-, and hygroscopic properties. STYX-12 exhibits a very low humidity absorption compared to other nylons and can be 3D printed at relatively low temperatures. This ensures a seamless 3D printing process.

Next to that, STYX-12 yields excellent UV and weather resistant properties and complies with EU food contact norms.

Applications
- Mechanical parts
- Functional prototypes
- Tooling
- Industrial prototyping
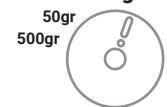- End-use parts
- Short-run manufacturing

Key Features
- Superb mechanical properties
  - Strong, durable, flexible, high impact resistance, high crack resistance, high scratch resistance
- Excellent chemical resistance
- UV and weather resistant
- Reduced humidity absorption
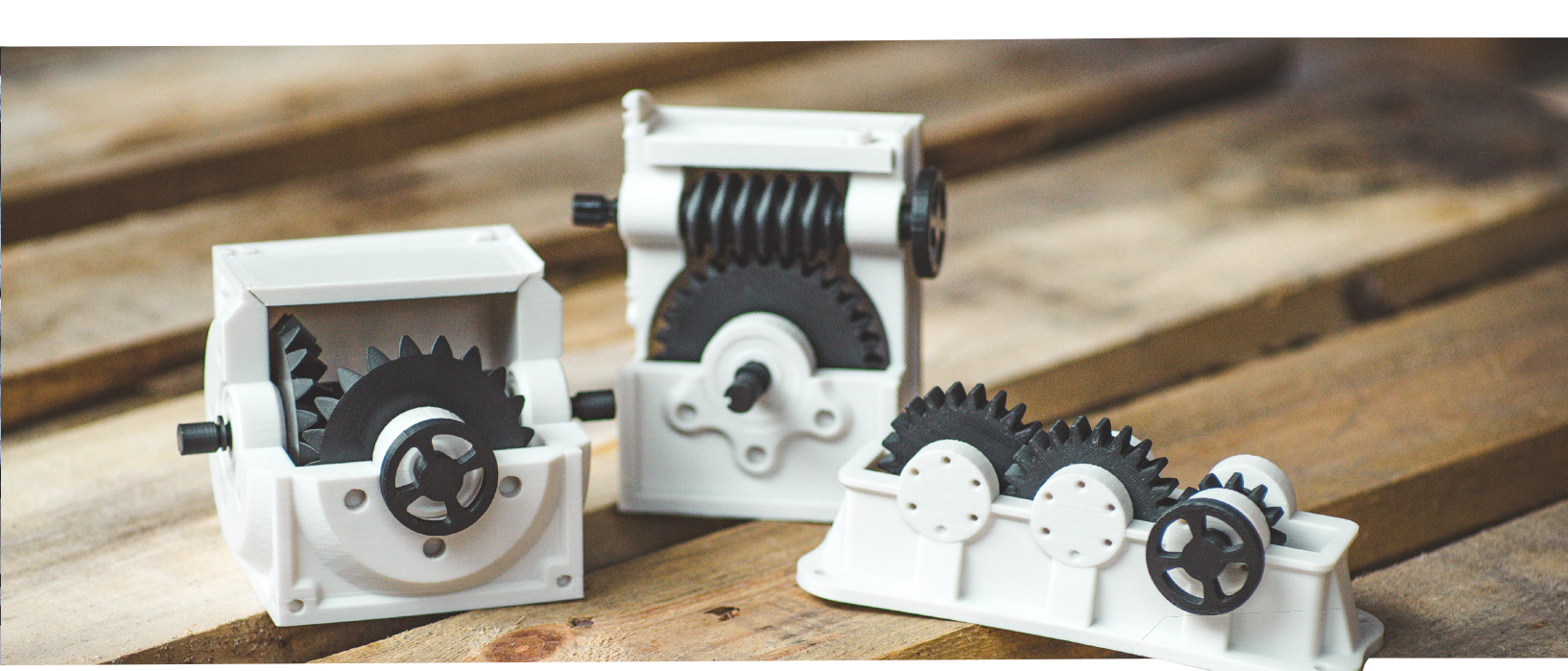- Food contact compliant

Available colors

Standard weights
50gr
500gr

More information

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Volcano PLA

Volcano PLA (polylactic acid) is an industrial-grade PLA which is engineered for professional applications that require high printing speeds and improved heat resistance and mechanical properties similar to ABS. Volcano PLA offers the same mechanical and thermal properties - after annealing - as most ABS filaments, but with the biodegradability and ease of printing of PLA. Volcano PLA combines a high heat resistance with high printing speeds and high impact resistance into a PLA-based filament engineered for industrial applications.

Applications
- Tooling
- Functional prototyping
- Mechanical components
- End-use products
- Manufacturing aids
- Short-run manufacturing

Key Features
- High heat resistance of ≥ 95° C after annealing
- Less than 0.3% shrinkage after annealing
  - Roughly 8 times less shrinkage compared to competitor materials available on the market
  - Engineered to have excellent dimensional accuracy before and after annealing
- Engineered for high printing speeds of > 120mm/s
- Highly crystalline immediately after extruding resulting in increased stiffness and temperature resistance
- Superb mechanical properties comparable to ABS
- Excellent interlayer adhesion and matte surface finish
- Compatible with HeliosSupport for complex multi-extrusion 3D printing
- Biodegradable

Available colors

Standard weights
50gr
750gr
2300gr
4500gr
8000gr

More information

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CarbonFil

CarbonFil is a composite PETG (polyethylene terephthalate glycol) filament which is gravimetrically reinforced with 20% carbon fibers. CarbonFil shows great dimensional stability and yields a combination of stiffness, heat resistance and impact strength.

Applications
- RC parts and drones
- Automotive parts
- End-use parts
- Short-run manufacturing

Key Features
- High impact resistance
- UV and weather resistant
  - Excellent resistance to changing weather conditions and UV light
- Good mechanical properties
- Minimal warping, excellent interlayer adhesion, and seamless build plate adhesion
- Detailed 3D printing with nearly injection moulded precision
- Vicat softening temperature of 98°C
- Compatible with Helios Support for complex multi-extrusion 3D printing
- Nearly odorless processing and no unpleasant styrene smell when being 3D printed
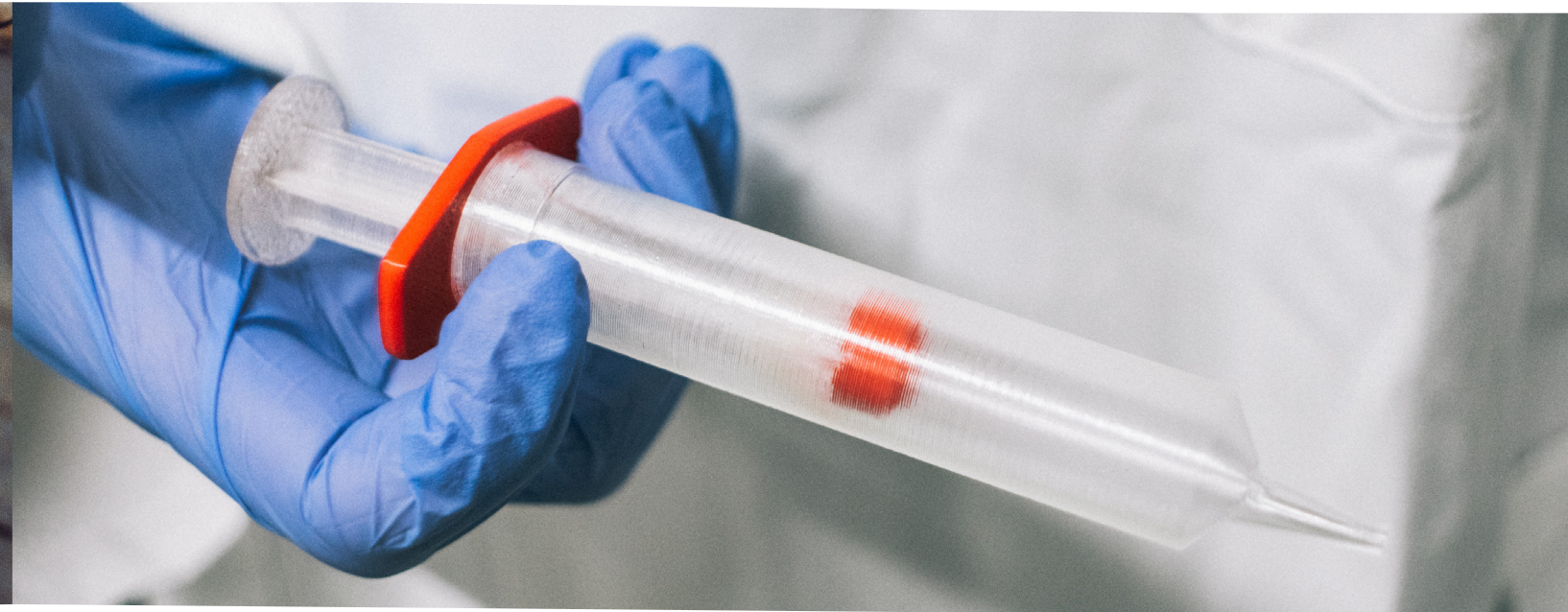
Available colors

Standard weights
50gr
500gr
2300gr

More information

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Crystal Flex

Crystal Flex (styrene-butadiene copolymer) yields formability, toughness, and clarity into is a high-performance semi-flexible 3D printer filament. Crystal Flex meets the specifications of the United States FDA Food Packaging Regulation 21 CFR 177.1640 and complies with UL 94 HB flammability standards.

Applications
- Fit testing
- Lighting
- Bottles, boxes, containers and (blister) packaging
- End-use parts
- Medical and lab equipment

Key Features
- Excellent clarity
  - Very clear filament with 92% light transmittance and high surface gloss
- Semi-flexible, bendable and resilient
  - Shore hardness of 63D and bendable up to 230% without causing white stress marks
- Food contact acceptable
- UL 94 HB flammability rating
- Compatible with Helios Support for complex multi-extrusion 3D printing

Available colors

Standard weights
50gr
500gr

More information

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FlexiFil

FlexiFil is a high-performance TPC (thermoplastic co-polyester) made partially from renewable rapeseed oil in place of mineral oil that significantly reduces carbon dioxide emissions from cradle to gate.

FlexiFil exhibits unique "flexural memory" properties and retains shape after torsion, bending, and/or flexing. FlexiFil combines flexibility with long term heat resistance, strength, excellent UV resistance and good resistance to chemicals.

Applications
- Electronic parts
- Automotive
- Functional prototyping
- End-use parts
- Specialty packaging

Key Features
- Very flexible filament with "flexural memory"
  - Shore hardness of 45D
- High impact resistance
  - No deformation or breaks when stressed by bending
- Strong & durable with high toughness and fatigue resistance
- Good resistance to chemicals
- Excellent UV resistance
- IEC 60695-11-10 Flammability classification: HB
- 43% renewable bio-based content

Available colors

Standard weights
50gr
500gr
More information

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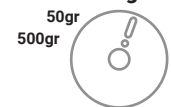
Python Flex

Python Flex is a high-performance flexible TPU (Thermoplastic Polyurethane) filament, which is designed for high speed printing on both direct drive and Bowden style extruders.

Python Flex has a shore hardness of 98A and exhibits excellent elastic properties as it can be stretched up to 450% before breaking. Python Flex is extremely transparent in its natural form and has excellent resistance to oil, greases, microorganisms and abrasion.

Applications
- Snap-fit assemblies
- Functional prototyping
- Short-run manufacturing
- Specialty packaging
- Tool handles
- Seals and gaskets

Key Features
- Good flexibility and elasticity
  - Shore hardness of 98A
  - Up to 450% elongation at break
- Engineered for high speed printing on all extruder types
  - Flexible filament that can be printed at elevated speeds of >80mm/s
- High wear-, abrasion- and fatigue resistance
- Heat resistant up to 138°C
- Minimal warping, excellent interlayer adhesion, and seamless build plate adhesion
- Compatible with Helios Support for complex multi-extrusion 3D printing

Available colors

Standard weights
50gr
500gr
More information

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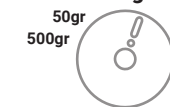
Our PVA Ecosystem

With our PVA (Polyvinyl Alcohol) ecosystem we offer a comprehensive support solution for complex multi-extrusion 3D printing.

Using your 3D printer to manufacture advanced objects with overhangs or holes?
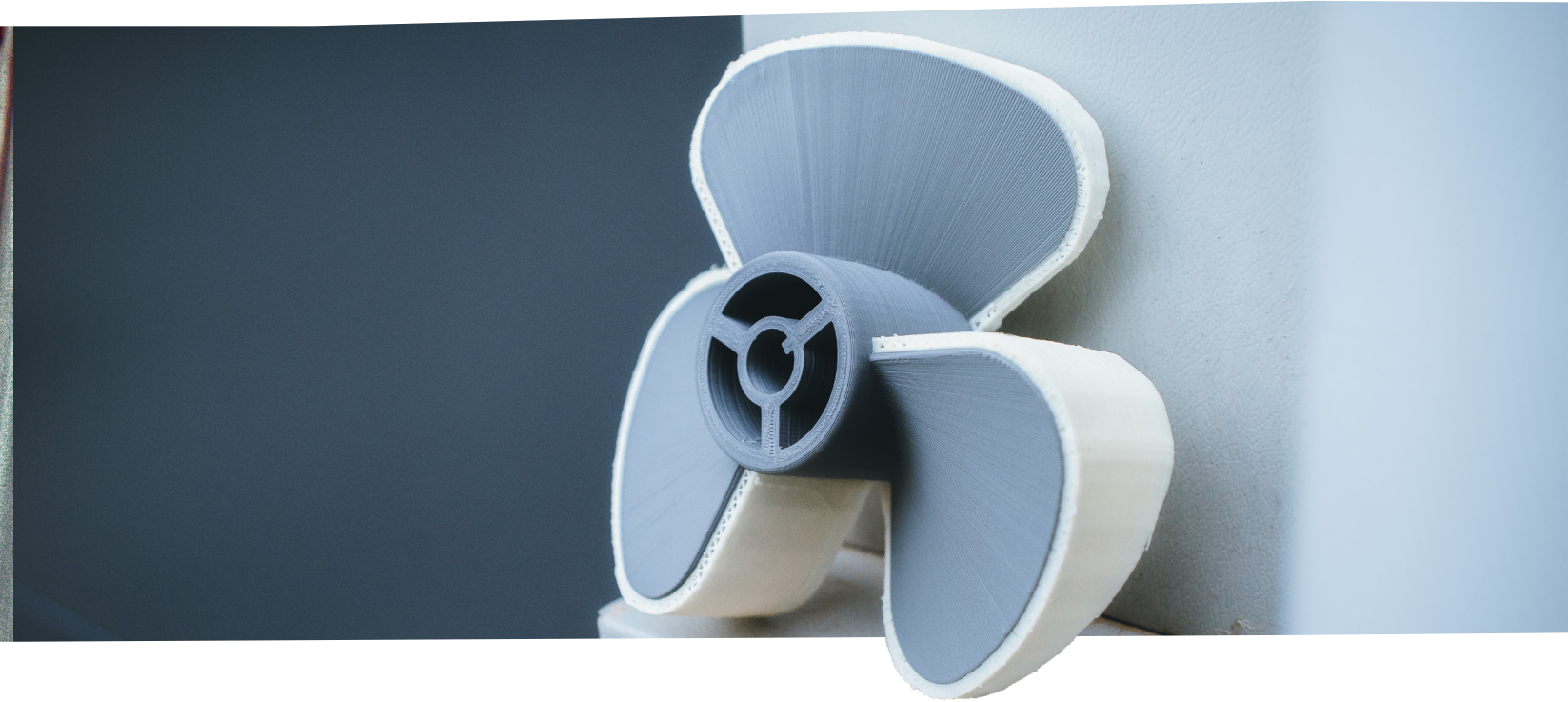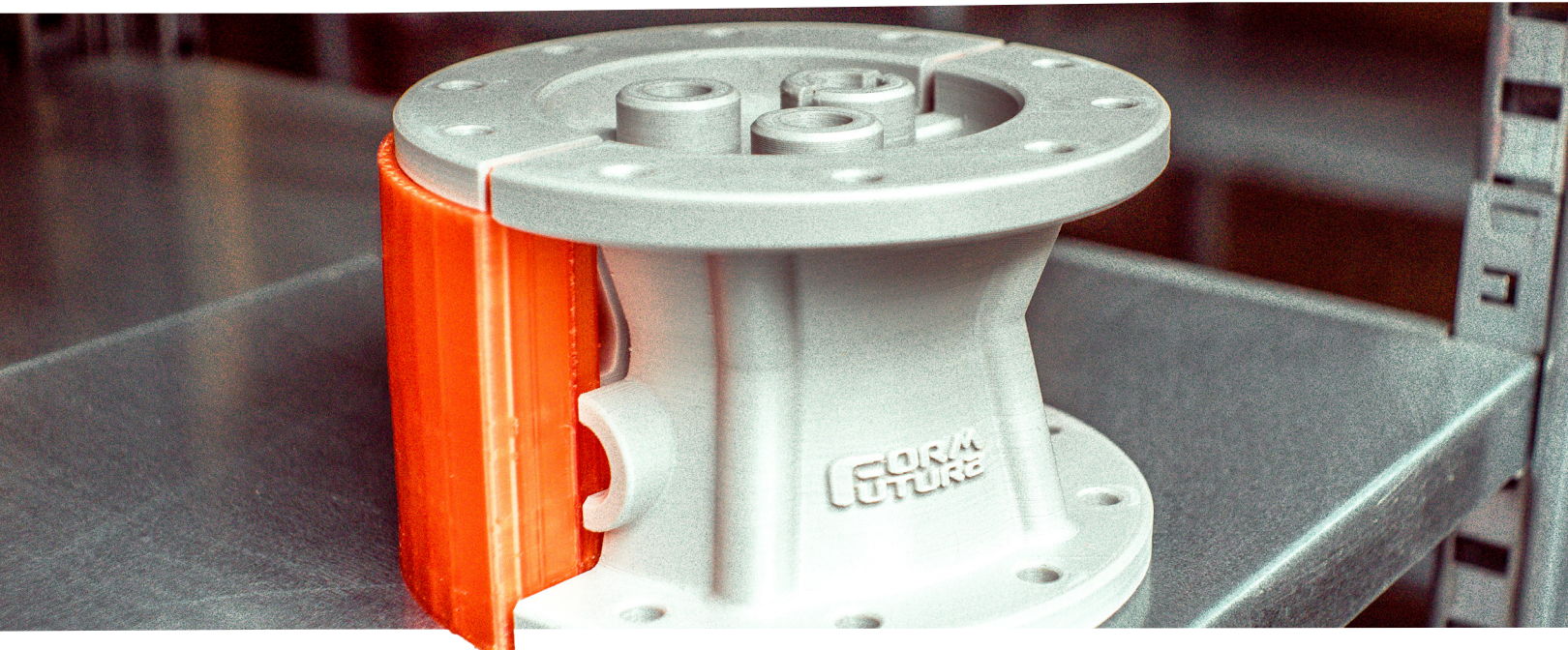With our PVA-based (polyvinyl alcohol) filaments, you'll never have to worry about the quality of the support for your 3D prints. Because PVA is completely water dissolvable, post-processing is a breeze. Take your pick from our biodegradable support filaments and let the results speak for themselves.

AquaSolve PVA
Excellent bonding to PLA-based materials and other (thermo)plastics that print within a similar temperature range.
- Max thermal stability of 210° C, tested up to 256 seconds with no flow

Available colors

Atlas Support
Excellent bonding to PETG-based materials and other (thermo)plastics that print within a similar temperature range.
- Max thermal stability of 225° C, tested up to 256 seconds with no flow
- Less sensitive to deterioration by humidity compared to regular PVA

Available colors

Helios Support
Excellent bonding to Styrene-based materials and other (thermo)plastics that print within a similar temperature range.
- Max thermal stability of 250° C, tested up to 256 seconds with no flow
- Can be printed in heated build chambers up to 60° C

Available colors

Standard weights
50gr
300gr

* All our PVA Materials are biodegradeable in (tap)water and can safely be disposed in a household drain/sink.

More information

ABSpro

ABSpro is a hybrid PC/ABS (polycarbonate / acrylonitrile budadiene styrene) engineering plastic that offers a a synergic effect of the superior strength and heat resistance of PC and the flexibility of ABS. ABSpro exhibits a high level of surface gloss and a seamless interlayer adhesion resulting in an engineering plastic that can be 3D printed with great dimensional stability and nealry injection molded precision.

Applications
- Functional mechanical parts
- Tooling
- Electronic appliance parts
- Houseware
- Short-run manufacturing
- Casings

Key Features
- High impact resistance
- Good chemical resistance
- Wear resistant and fatigue resistant
- High resolution 3D printing with fine detail
- Heat deflection temperature of 108° C
- Compatible with Helios for complex multi-extrusion 3D printing
- Excellent dimensional stability

Available colors

Standard weights
50gr
500gr
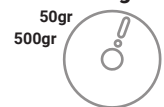
More information

ABSpro Flame Retardant
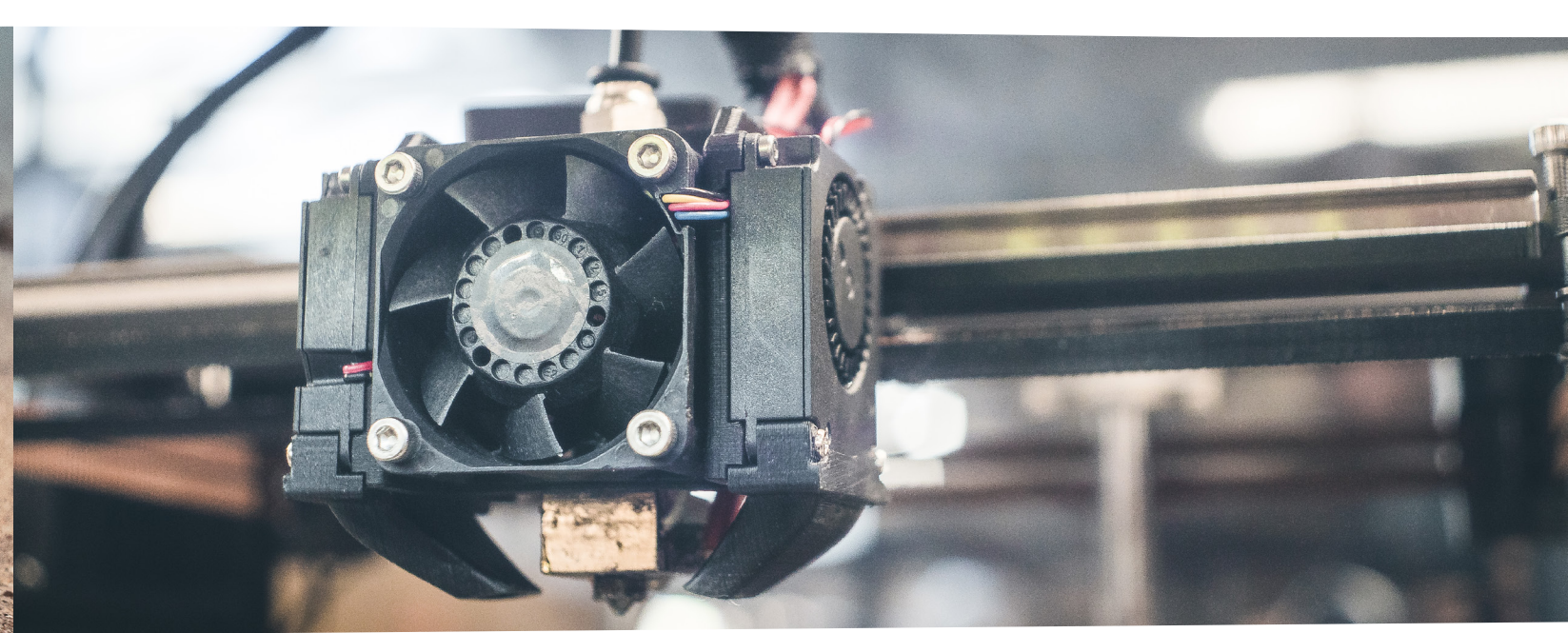
ABSpro Flame Retardant is a hybrid PC/ABS (polycarbonate/acrylonitrile budadiene styrene) engineering plastic that complies with UL 94 V-0 flammability standards.
ABSpro Flame Retardant is modified with halogen-free flame retardant modifiers and is self-extinguising within 10 seconds.

Applications
- Functional mechanical parts
- End-use parts that need to be self-extinguishing
- Electronic appliance parts
- Short-run manufacturing

Key Features
- Complies with UL 94 V-0 flammability standards
  - Self-extinguishing within 10 seconds
- Excellent dimensional stability
- Seamless interlayer adhesion
- High resolution 3D printing with fine detail
- Heat deflection temperature of 110° C
- Compatible with Helios Support for complex multi-extrusion 3D printing

Available colors

Standard weights
50gr
500gr
2300gr

More information

EasyFil ABS

Premium ABS

EasyFil ABS (acrylonitrile butadiene styrene) combines good mechanical properties such as high impact resistance, strenght, rigidity, toughness, durability, and heat resistance into a commodity ABS filament that is very versatile and that can be used for countless applications.

Premium ABS (acrylonitrile butadiene styrene) is our entry-level ABS filament which exhibits good processing stability and good mechanical properties. Premium ABS is a versatile 3D printer filament that is suitable for many applications that require durable ABS parts. Premium ABS can be post-processed with acetone.

Key Features
- Reliable 3D printing
- Improved mechanical strength and rigidity
- High toughness and impact strength
   - High impact strength at sub-zero temperatures
- Vicat softening temperature of 103° C
- Compatible with Helios for complex multi-extrusion 3D printing
- Post-processing with acetone
- Wide range of standard color options available
- Good to recycle

Applications
- Tooling
- Appliance housings
- Functional prototyping
- End-use parts
- Short-run manufacturing

Key Features
- Reliable 3D printing
- Good mechanical properties
- Compatible with Helios for complex multi-extrusion 3D printing
- Post-processing with acetone
- Good to recycle

Applications
- Tooling
- Appliance housings
- Functional prototyping
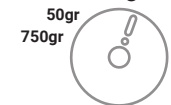- End-use parts
- Short-run manufacturing

Difference between EasyFil ABS and Premium ABS
Both EasyFil ABS and Premium ABS are far above average impact resistant ABS-type of 3D printer filaments. EasyFil ABS is however more impact modified resulting in improved mechanical properties and better processing properties. EasyFil ABS exhibits improved mechanical strength, toughness, rigidity, heat resistance and impact resistance compared to Premium ABS.
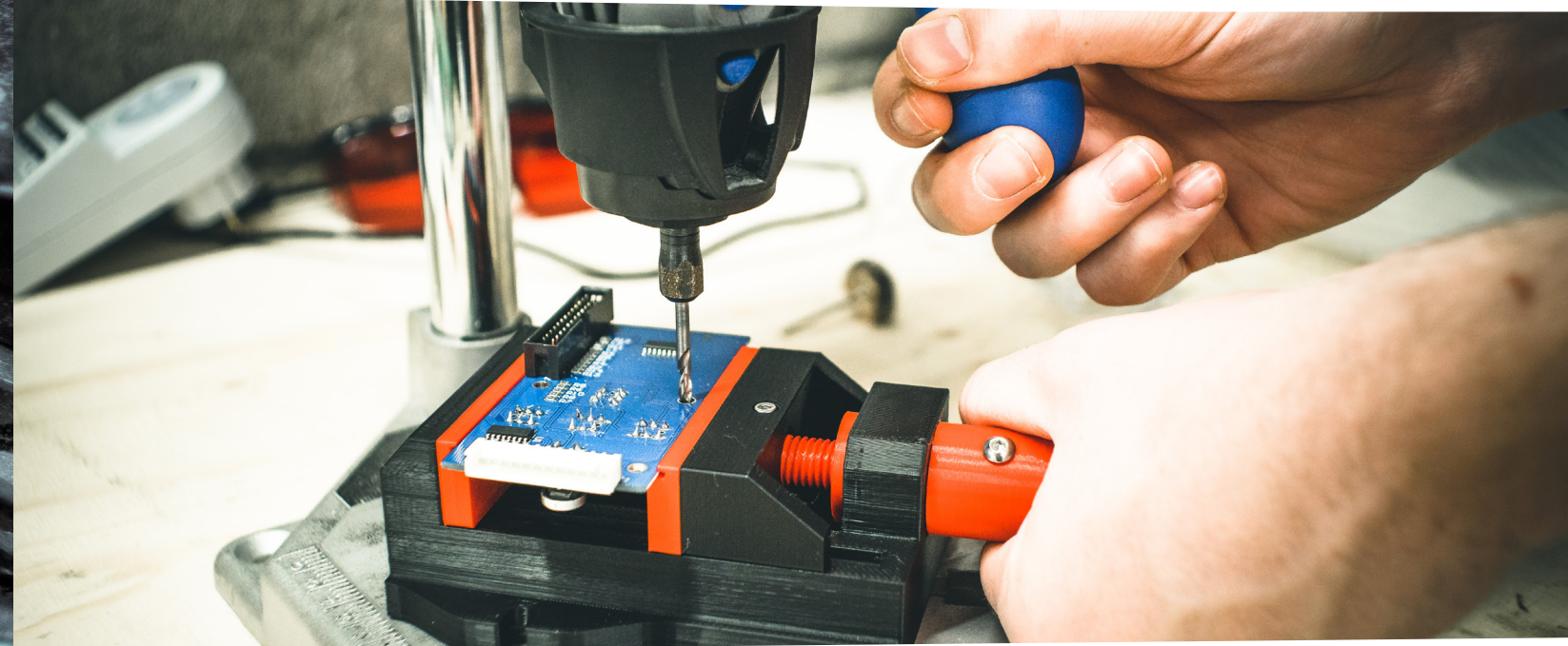
Available colors

Standard weights
50gr
750gr

More information

Available colors

Standard weights
50gr
1000gr
2300gr

More information

ClearScent ABS

ClearScent ABS (methylmethacrylate acrylonitrile butadiene styrene) combines good mechanical properties and translucency into a 3D printer filament that is easy to process with limited warping and limited styrene smell. ClearScent ABS exhibits resistance to various chemicals and complies with UL 94 HB flammability standards.

Applications
- Household tools
- Electronic goods
- Frames and panels
- Custom components
- Short-run manufacturing

Key Features
- Translucent ABS filament
  - 90% light transmittance with 2.2% haze
- UL 94 HB flammability rating
- Good chemical resistance
- Limited warping and styrene smell when being 3D printed
- Compatible with Helios Support for complex multi-extrusion 3D printing
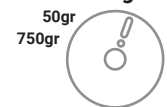- Post-processing with acetone, tetrahydrofuran (THF) and other analogous solvents

Available colors

Standard weights
50gr
750gr

More information

EasyFil HIPS

EasyFil HIPS (high impact polystyrene) is a versatile thermoplastic that is lightweight, durable, impact resistant and very suitable for 3D printing large and complex prints with a matte surface finish and virtually no visible layers. EasyFil HIPS is lightweight, easy to glue and complies with UL 94 HB flammability standards. This makes EasyFil HIPS a very suitable material for 3D printing large-scale prototypes.

Applications
- Casings
- Mechanical parts
- Functional testing
- Model building
- End-use parts
- Short-run manufacturing

Key Features
- Lightweight and durable
- High impact resistance
- Matte surface finish with no visible layers
- High ESCR resistance
- Complies with UL 94HB flame retardancy standards
- Compatible with Helios Support for complex multi-extrusion 3D printing
- Dissolvable in d-limonene
- Can be glued with adhesives, such as styrene glues, epoxy adhesives, superglues, and contact adhesives
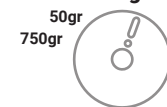- Recyclable

Available colors

Standard weights
50gr
750gr

More information

Matt PLA

Matt PLA (polylactic acid) is modified to have a rough and matt surface finish. Matt PLA has excellent 3D printing properties and combines a distinguished surface quality with fine details reinforced by its matt appearance.

Applications
- Household tools
- Architectural mock-ups
- Complex educational projects and models
- Concept models
- Manufacturing and visualization aids

Key Features
- Good surface quality
  - Rough and matt surface finish with fine detail
- Easy to print at high printing speeds
  - Warp-free printing and improved flowing behaviour
  - Excellent first layer adhesion to several (un)heated print surfaces
- Compatible with AquaSolve PVA
- Wide variety of matt PLA colours

Available colors

Standard weights
50gr
750gr
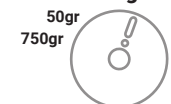
More information

Silk Gloss PLA

Silk Gloss PLA (polylactic acid) is modified with another polymer to have a very smooth and silky surface finish with a high level of light dispersion and reflection. Silk Gloss PLA exhibits excellent 3D printing properties and allows objects to be 3D printed with a high level of glossiness and almost no visible layers.

Applications
- Aesthetics, design, and art
- Complex educational projects and models
- Household articles
- Visualization Techniques

Key Features
- Good surface quality
  - Shiny silk gloss surface finish without visible layers and fine detail
  - High level of light dispersion and reflection
  - Lowering printing speed and temperature increases the silk gloss effect
- Easy to 3D print
  - Warp-free printing and improved flowing behaviour
  - Excellent first layer adhesion to several (un)heated print surfaces
- Compatible with AquaSolve PVA for complex dual extrusion 3D printing
- Wide variety of vivid and brilliant silk gloss colours

Available colors

Standard weights
50gr
750gr
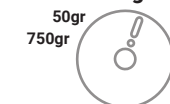
More information

EasyFil PLA

EasyFil PLA (polylactic acid) is impact modified to be silghtly softer than regular PLA and to optimize flow and interlayer adhesion. With this modification it has a deep opaque color and combines easy processing properties with high resolution printing and an excellent surface quality.

Key Features
- Very easy to 3D print with improved flowing behaviour, excellent interlayer adhesion, and seamless build plate adhesion
- High resolution 3D printing with fine detail
  - Optimized flowing behaviour results in layers flowing into each other
- Good surface quality and aesthetics
- Slightly softer and tougher than regular PLA
- Compatible with AquaSolve for complex multi-extrusion 3D printing
- Wide range of standard color options available
- Biodegradable

Applications
- Household tools
- Architectural mock-ups
- Visualization aids
- Casts and moulds
- Educational models
- Prototyping

Difference between EasyFil PLA and Premium PLA
Both PLA ranges are based on the same grade of PLA, but EasyFil PLA is 5 times more impact modified than Premium PLA. This results in an improved flowing behavior and resolution prints with perfect surface quality. EasyFil PLA is best used with lesser complex geometries with limited to no overhangs. Premium PLA is lesser impact modified and by that has a faster crystalization process of the printed layers. Because of this faster crystallization process Premium PLA is more suitable for complexer geometries and is often used for large scale prototying on industrial-sized 3D printers.

Available colors

Standard weights
50gr
750gr
2300gr

More information

Premium PLA

Premium PLA (polylactic acid) is our general purpose PLA filament which yields reliable 3D printing with a quick crystalization process of 3D printed layers, resulting into a PLA filament that is suitable for 3D printing complex overhanging geometries. Premium PLA is standard available on large spool sizes and is often used for largescale printing with industrial-sized 3D printers.

Key Features
- Reliable 3D printing
- Fast crystallization process of 3D printed layers
- Suitable for largescale prototyping and 3D printing complex geometries
- Compatible with AquaSolve for complex multi-extrusion 3D printing
- Easy to process at elevated print speeds
- Available on various spool sizes ranging from desktop formats to industrial-sized spools
- Biodegradable

Applications
- Large-scale prototyping
- Manufacturing aids
- Complex conceptual models
- Visualization aids

Available colors

Standard weights
50gr
1000gr
2300gr
4500gr
8000gr

More information

Galaxy PLA

Galaxy PLA (polylactic acid) contains a high amount of added silver aluminium flakes, which gives 3D printed objects a sparkling and reflecting surface finish without any visible layers.

Applications
- Aesthetics, design, and art
- Complex educational projects and models
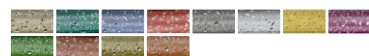- Household articles
- Visualization aids

Key Features
- Sparkling surface finish without visible layers
- Very easy to 3D print with improved flowing behaviour, excellent interlayer adhesion, and seamless build plate adhesion
- Compatible with AquaSolve for complex multi-extrusion 3D printing
- Wide range of standard color options available

Available colors

Standard weights
50gr
750gr
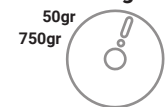
More information

StoneFil

StoneFil is a composite PLA (polylactic acid) filament which is gravimetrically filled with approximately 50% of powdered stone. Due to its high "stone-filling" StoneFil exhibits real stone-like aesthetics and high material density.

Objects printed in StoneFil will have a true matte stone-like surface finish with natural gradient colour linings. Each print will have its own identity with unique gradient colour shadings.

Applications
- Aesthetics, design, and art
- Architectural mock-ups
- Visualization aids
- Educational projects and models

Key Features
- Colour changing ability from anthracite grey to natural PLA at 29° C Very high stone-filling of 50%
  - Matte and rough stone-like surface finish
  - ±37% heavier than regular PLA
- Unique natural/organic gradient colouring
- Compatible with AquaSolve for complex multi-extrusion 3D printing
- Biodegradable

Available colors

Standard weights
50gr
500gr

More information

MagicFil Thermo PLA

MetalFil

MagicFil Thermo PLA (polylactic acid) is modified with a thermochrome additive that enables the material to change colour when it reaches a temperatue of 29° C or above. MagicFil Thermo PLA is coloured in anthracite grey when temperatures are lower than 29° C and turns into a natural PLA colour when the temperature is at 29° C or above.

MetalFil Ancient Bronze and Classic Copper are composite PLA (polylactic acid) filaments that are gravimetrically filled with approximately 80% bronze or copper powder. The high filler content in MetalFil makes 3D printed objects nearly indistinguishable from genuine cast parts. MetalFil can be post-processed with various patina effects.

Applications
- Household tools
- Visualization aids
- Educational models

Applications
- Aesthetics, design, and art
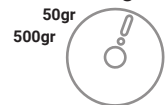- Figurines and miniatures

Key Features
- Colour changing ability from anthracite grey to natural PLA at 29° C
  - Anthracite grey < 29° C > natural
- Compatible with AquaSolve PVA for complex multi-extrusion 3D printing
- Biodegradable

Key Features
- Very high filling of 80%
- Real metal look, heavyweight, and "cool" metal feel
- Approximately 300% heavier than PLA (density of 3.5 g/cc)
- Compatible with full metal, PEEK, and PFTE hotends
- Compatible with direct drive and Bowden style extruders
- Compatible with ≥ 0.4mm hardened nozzles with retraction settings enabled
- Easy to post-process
  - MetalFil can be brushed, sanded, polished, waxed, coated and patina post-processed

Available colors

Standard weights
50gr
500gr

More information

Available colors

Standard weights
50gr
750gr
1500gr

More information

EasyCork

EasyWood

EasyCork is a composite PLA (polylactic acid) filament which is gravimetrically filled with approximately 30% cork fibres. EasyCork is a lightweight filament and exhibits cork-like aesthetics, such as a real cork look, feel, and smell.

EasyWood is a composite PLA (polylactic acid) filament which is gravimetrically filled with approximately 40% grinded wood particles. EasyWood looks, feels and smells like real wood and wood-nerve structures can by grinding the printed object a bit with a piece of fine grit sandpaper, or by varying with the printing temperature.

Applications
- Aesthetics, design, and art
- Architectural mock-ups
- Visualization aids
- Educational projects and models

Applications
- Aesthetics, design, and art
- Architectural mock-ups
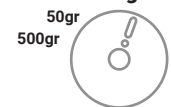- Visualization aids
- Educational projects and models

Key Features
- Very high cork-filling of 30%
  - Real cork feel, look and smell
- Create different colour shadings
  - By postprocessing the printed object with a piece of fine grit sandpaper
  - By varying with the printing/extrusion temperature
- Compatible with AquaSolve for complex multi-extrusion 3D printing
- Biodegradable

Key Features
- Very high wood-filling of 40%
  - Real wood feel, look and smell
- Create wood-nerve structures
  - By postprocessing the printed object with a piece of fine grit sandpaper
  - By varying with the printing/extrusion temperature
- Compatible with AquaSolve for complex multi-extrusion 3D printing
- Biodegradable

Available colors

Available colors

Standard weights
50gr
500gr

More information

Standard weights
50gr
500gr
2300gr

More information

Spools For Industrial Applications
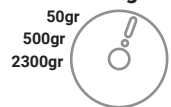
Additive manufacturing is widely embraced by industries for research and development, proto-typing and short-run manufacturing of end-use products. The demand for industrial-scale 3D printers and subsequently industrial-sized filament spools is rapidly growing.

A substantial part of Formfutura's industry leading filament types is standard available on industrial-sized spools, which are typically spooled with 2.3kg, 4.5kg, or even 8kg of filament. Additive manufacturing using Formfutura filaments is addepted by sectors such as aerospace, automotive, medical, transportation, energy, consumer products.

Besides our standard product offering and spool sizes nearly all Formfutura filaments can be custom spooled on spools that contain a weight up to 10kg of filament.

Whereas Formfutura's consumer-sized spools are made from recycled cardboard we also strive to package our industrial-sized packagings as sustainable as possible. Our industrial-sized spools are made from recycled ABS, which in turn is very easy to recycle again. The cardboard boxes used to package our industrial-sized spools are made from FSC certified and climate neutral recycled cardboard.

ReForm is a sustainable initiative within Formfutura to efficiently manage our own post-industrial waste-streams and to ReForm them into high-end upcycled filaments. The ideology behind ReForm is to make 3D printing more sustainable without having to make compromises on material properties and costprice.

During the production of filament there is a continous flow of waste, such as:
- Filament being out of specification
- Changing colors on the extruders
- Changing materials on the extruders
- Incorrect colors
- Material that failed to pass quality control

This "waste-filament" is carefully sorted at the factory and shredded into granules. After that it is being homogenized, dried, made crystaline, and recompounded into various ReForm compounds and finally extruded as ReForm filament. As ReForm is 100% made from own post-industrial residual waste streams from extrusion, we know exactly what is inside and how to ReForm it into high-end filaments with material properties that are more than 99,5% the same as their virgin grade counterparts.

In today's society recycling and circular economy is getting more and more important and with ReForm you can now choose to make your 3D printing processes more sustainable without having to make compromises on materials properties.

Available colors

Standard weights
50gr
1000gr

More information

HDglass

HDglass is a modified PETG (polyethylene terephthalate glycol) that combines extreme clarity, strenght, durability, and dimensional stability into a 3D printer filament that is easy to process with optimized interlayer adhesion and limited warping. HDglass is hydrophobic, exhibits resistance to various chemicals and meets various EU and US food contact specifications.

Applications
- Household tools
- Mechanical components and working mechanisms
- Packaging protoytpes
- Visual and functional prototyping
- Containers and casings
- Short-run manufacturing

Key Features
- Highly translucent and high gloss
  - 90% transmittance of optical light with only 1% of haze
- Minimal warping, good interlayer adhesion, and seamless build plate adhesion
- Strong, tough, durable, and excellent dimenional stability
- Good chemical resistance
- Food contact acceptable
- Compatible with Atlas Support for complex multi-extrusion 3D printing

Available colors

Standard weights
50gr
750gr
2300gr
4500gr
8000gr

More information
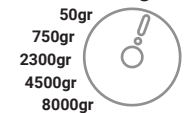
Platinum SLA Series

Platinum SLA Series is a general purpose photopolymer SLA resin that is specifically developed to work with all open source SLA, DLP, and LCD 3D Printers in the range of 385 - 405nm.

Our Platinum SLA resin is almost odorless and 3D prints with and extremely high accuracy and a very smooth surface finish.

Applications
- Figurines and models
- Functional prototyping
- End-use products

Key Features
- High resolution 3D printing with fine detail
- Almost Odorless processing
- Excellent dimensional accuracy and low shrinkage
- Low water absorption
- Compatible with all open source SLA, DLP, and LCD 3D printers in the range of 385 - 405nm

Available colors

Standard weights
500gr

More information

Dental LCD Series

Dental LCD Model Resin is a high-precision photopolymer resin designed for accurate modeling of dental models, aligner models, gums, teeth, crown and bridge models with removable dies. Dental LCD Model is specifically engineered to work with all open source LCD and DLP 3D printers in the range of 385 - 420nm.

Dental LCD Model resin has a surface finish and color similar to gypsum, which perfectly accentuates depth and detail in the dental model. Formfutura Dental LCD Model resin is meant for modeling purposes only and not for intraoral use.

Applications
- Models of dentures
- Implant models
- Crown and bridge models
- Models of gums
- Orthodontic models

Key Features
- High-resolution 3D printing with fine detail
- Almost odorless processing
- Excellent dimensional accuracy and low shrinkage
- Gypsum-like texture and color
- Temperature resistant for dental aligner production
- Compatible with all open source LCD and DLP
  3D printers in the range of 385 - 420nm

Available colors

Standard weights
500gr

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Platinum LCD Series

Platinum LCD Series is a general puropose photopolymer LCD resin that is specifically developed to work with all open source LCD and DLP 3D printers in the range of 385 - 420nm.

Our Platinum LCD resin is almost odorless and 3D prints with an extremely high accuracy and a very smooth surface finish. Our Platinum LCD Resin series are developed to 3D print with relatively short curing times.

Applications
- Figurines and models
- Functional prototyping
- End-use products

Key Features
- High resolution 3D printing with fine detail
- Almost Odorless processing
- Excellent dimensional accuracy and low shrinkage and low water absorption.
- Compatible with all open source DLP and LCD 3D Printers in the range of 385 - 405nm
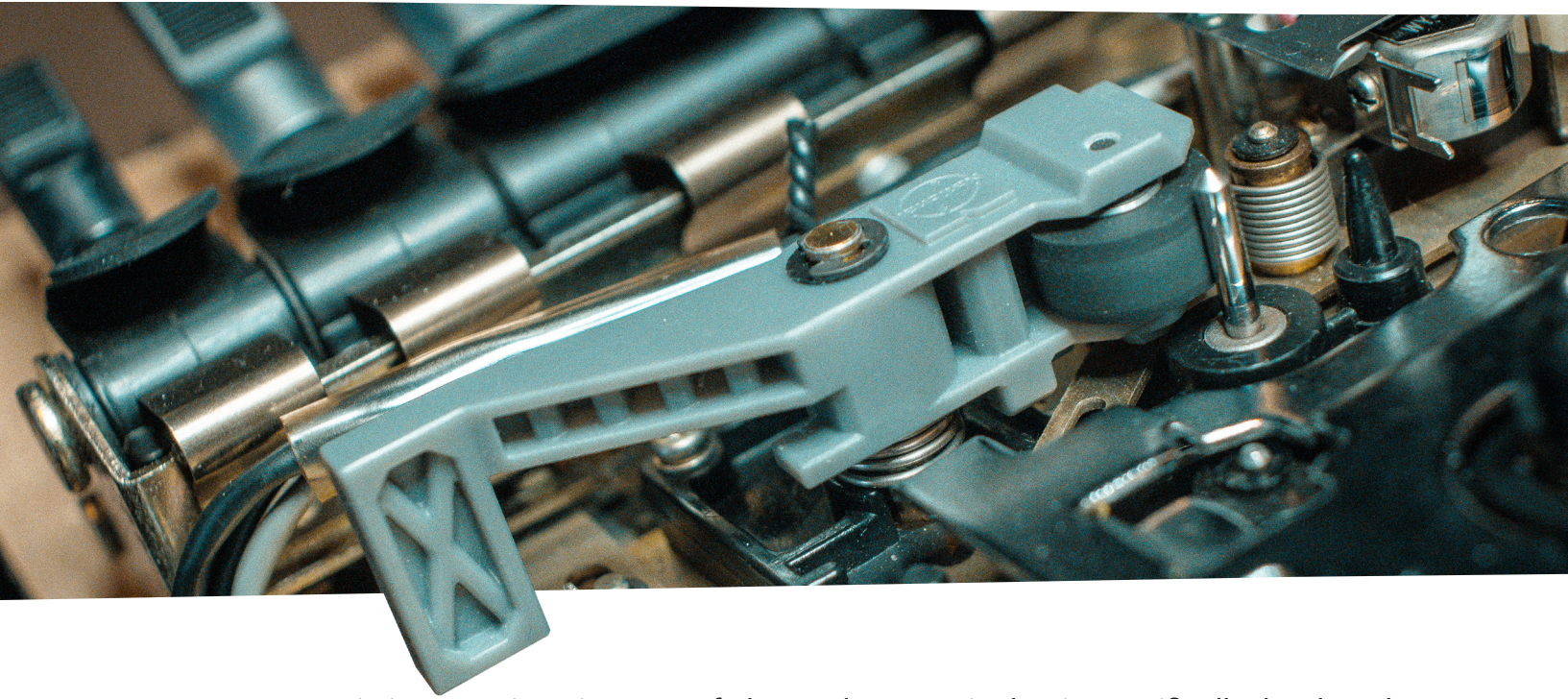
Available colors

Standard weights
500gr

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Engineering Series - Heavy Duty

Heavy Duty Resin is an engineering type of photopolymer resin that is specifically developed to work with all open source SLA, DLP, and LCD 3D Printers in the range of 385 – 405nm. Our Heavy Duty Engineering resin combines an impressive flexural strength with high temperature resistance and durabilty.

Applications
- Tooling
- Jigs and fixtures
- Manufacturing aids
- Mold masters for low volume injection molding
- Functional prototyping

Key Features
- Flexural strength of 135 MPa
- Stiff and durable
- High heat resistance of 128°C
- High dimensional accuracy and low shrinkage
- Almost odourless processing
- Compatible with all open source SLA, DLP, and LCD 3D printers in the range of 385 - 405nm
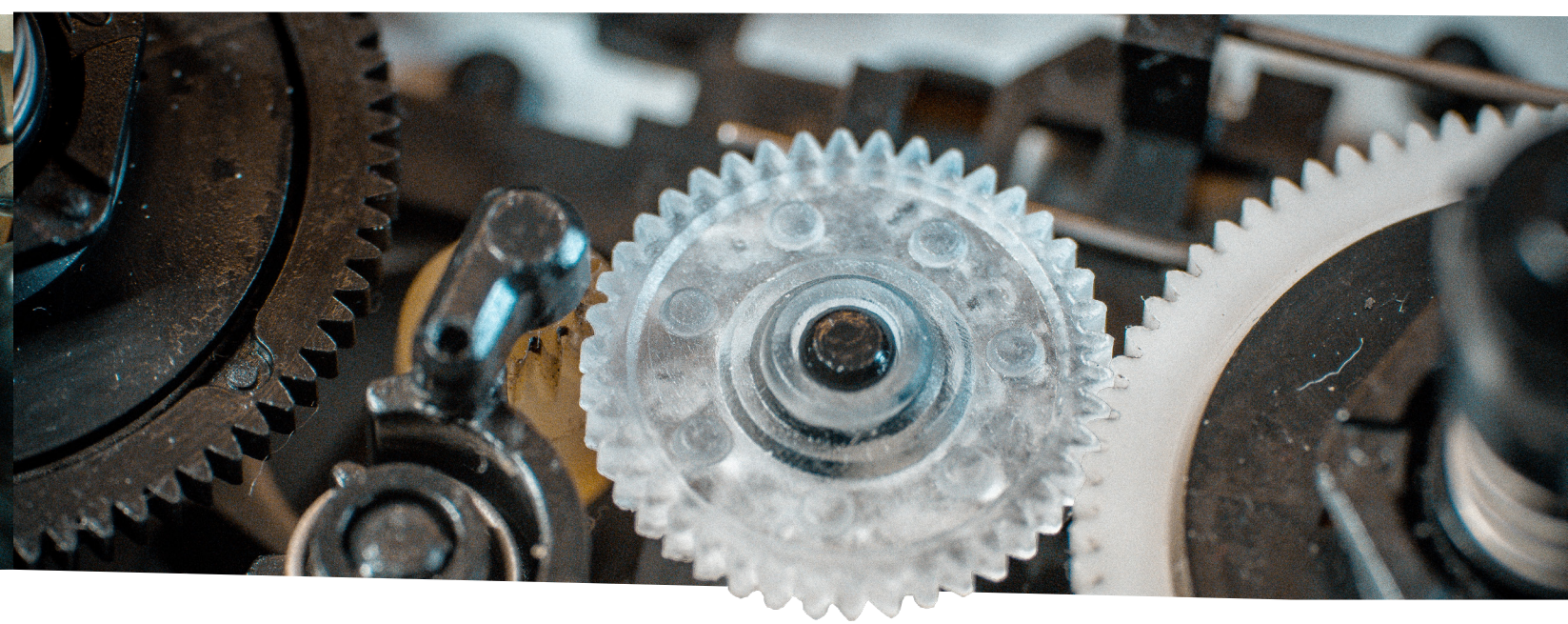
Available colors

Standard weights
500gr

More information

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Engineering Series - Tough Resin

Tough Resin is an engineering type of photopolymer resin that is specifically developed to work with all open source SLA, DLP, and LCD 3D Printers in the range of 385 – 405nm. Our Tough Engineering resin is extremely transparent and perfectly balances a high impact strength with semi-flexibility.

Its high level of toughness makes Formfutura Tough Resin ideal for creating strong and functional parts that will be exposed to repeatedly brief periods of intense stress or strain.

Applications
- Snap-fit assemblies
- Tooling
- Functional prototyping
- Protective cases
- Outdoor parts
- Short-run manufacturing

Key Features
- High impact resistance
- Good UV and weather resistance
- Good fatigue resistance
- Extremely transparent with virtually no discoloration and/or yellowing
- High dimensional accuracy and low shrinkage
- Almost odourless processing
- Compatible with all open source SLA, DLP, and LCD 3D printers in the range of 385 - 405nm
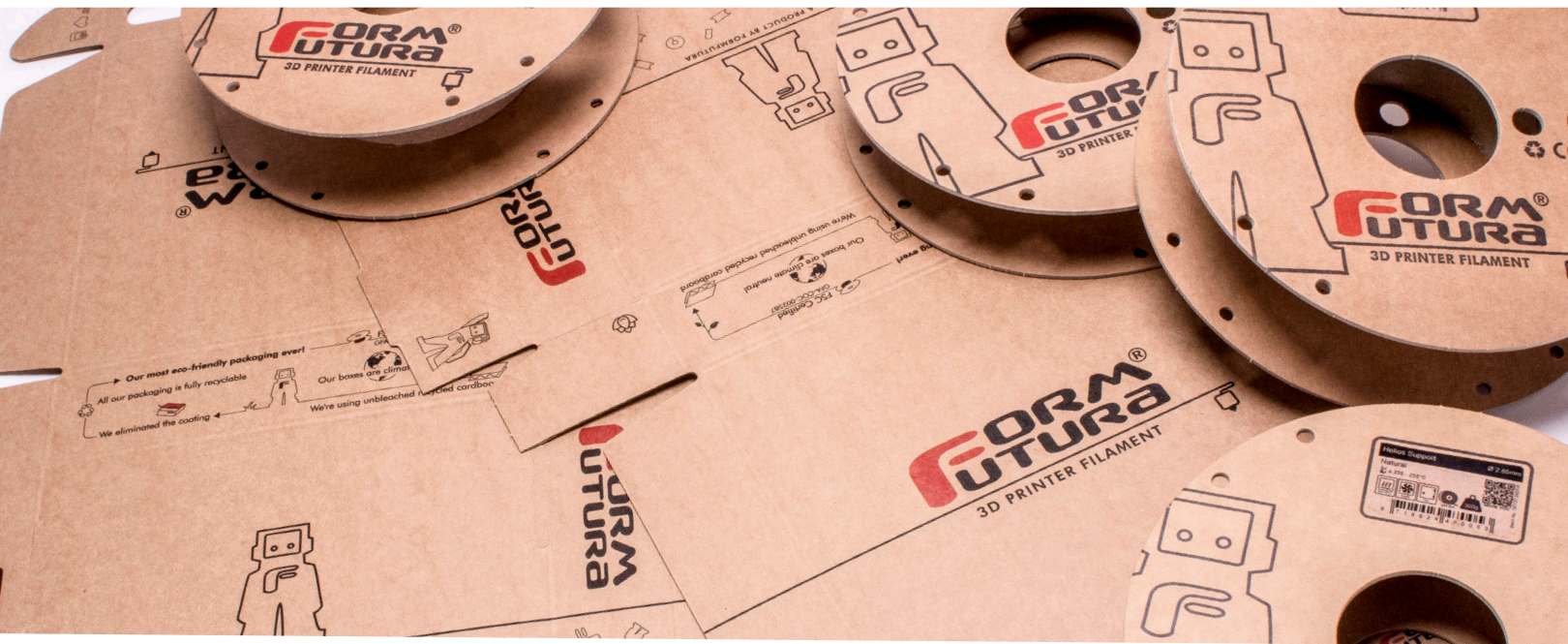
Available colors

Standard weights
500gr

More information
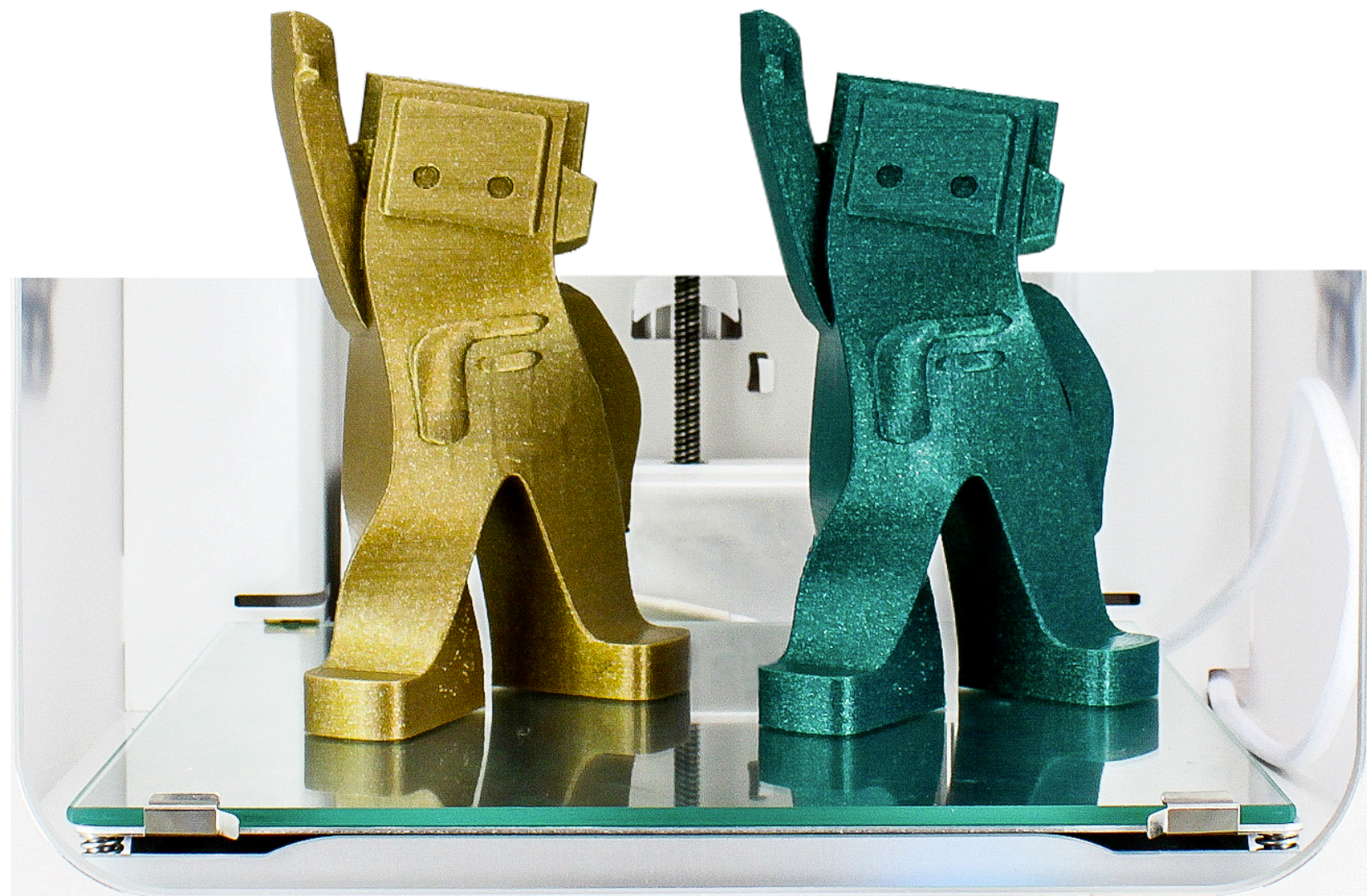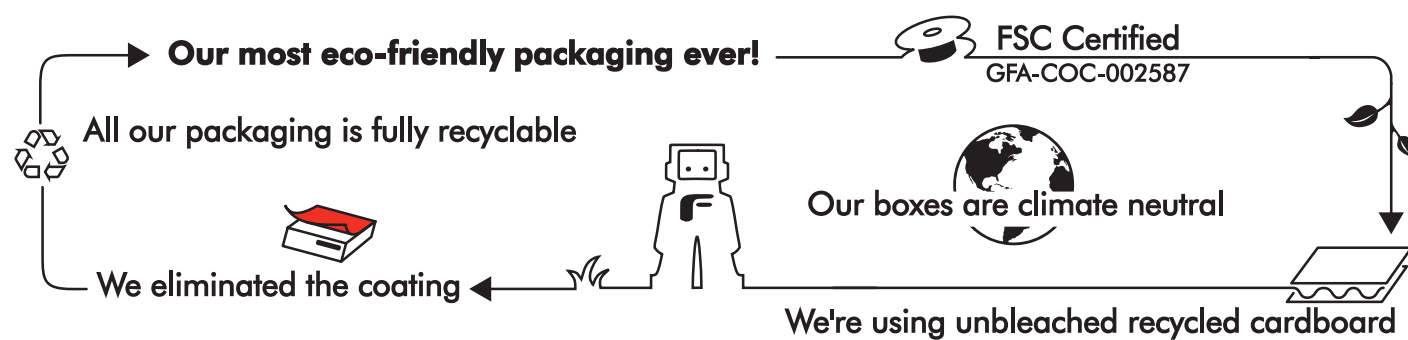
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Frontrunner In Sustainability

As a leading supplier of filaments, Formfutura wants to set an example for the industry by raising awareness about sustainability whilst doing our part to help realize a better tomorrow. In order to lower our footprint our consumer packagings for all filaments up to 1kg are spooled onto fully recyclable, sturdy cardboard spools. The boxes our consumer-sized spools come in are made out of recycled cardboard. Both our cardboard spools and carboard boxes are made from recycled cardboard that is FSC certified and climate neutral.

Why Cardboard?

- Cardboard is a natural desiccant (drying agent) and the cardboard spool will protect your filament even more against humidity.
- Many engineering type of filaments require to be pre-dried at elevated temperatures for a prolonged period of time and cardboard spools can be dried at much higher temperatures than plastic spools due the risk of deformation in plastic spools.
- As our cardboard spools are manufactured in the Netherlands we are actively minimizing the total travel distance and which logistically helps us to reduce our carbon footprint even further!
- Recycling cardboard spools and packaging can easily be arranged via existing paper recycling programs.

Our most eco-friendly packaging ever!

FSC Certified
GFA-COC-002587

All our packaging is fully recyclable

Our boxes are climate neutral

We eliminated the coating

We're using unbleached recycled cardboard

Say hi to our Mascot Fil Futura!

We print Fil in all our materials. Both to test the material ourselves and to share a picture of Fil for every material and in every color in our shop. That way you don't see only a roll of filament, but a real print with the filament you are about to use.

PVA Compatibility List

	AquaSolve PVA	Atlas Support	Helios Support
ABSpro	-	-	+
ABSpro Flame Retardant	-	-	+
ApolloX	-	-	++
CarbonFil	-	++	-
Centaur PP	No data	No data	No data
ClearScent ABS	-	-	++
Crystal Flex	-	-	+
EasyCork	+	+/-	-
EasyFil ABS	-	-	++
EasyFil HIPS	-	-	++
EasyFil PLA	++	+	-
EasyWood	++	+	-
FlexiFil	No data	No data	No data
Galaxy PLA	++	+	-
HDglass	-	++	-
MagicFil Thermo PLA	++	+	-
Matt PLA	++	+	-
MetalFil	No data	No data	No data
Pegasus PP UltraLight	No data	No data	No data
Premium ABS	-	-	++
Premium PLA	++	+	-
Python Flex	-	-	++
ReForm rPet	-	++	-
ReForm rPLA	++	+	-
ReForm rTitan	-	-	++
Silk Gloss PLA	++	+	-
StoneFil	+	+/-	-
STYX-12	No data	No data	No data
TitanX	-	-	++

Print Settings Reference

	Nozzle size	Print temp	Bed temp	Layer Height	Fan speed	Enclosure
ABSpro	≥ 0.15mm	± 245 - 275 °C	±100 - 120 °C	≥ 0.10mm	± 0 - 30%	Yes
ABSpro Flame Retardant	≥ 0.15mm	± 240 - 265 °C	±100 - 120 °C	≥ 0.10mm	± 0 - 30%	Yes
ApolloX	≥ 0.15mm	± 235 - 255 °C	± 80 - 100 °C	≥ 0.10mm	± 0 - 30%	Yes
AquaSolve - PVA	≥ 0.15mm	± 190 - 210 °C	± 0 - 60 °C	≥ 0.10mm	± 0 - 30%	No
Atlas Support	≥ 0.15mm	± 180 - 210 °C	± 0 - 60 °C	≥ 0.10mm	± 0 - 30%	No
CarbonFil	≥ 0.40mm	± 230 - 265 °C	± 0 - 60 °C	≥ 0.20mm	± 50 - 100%	No
Centaur PP	≥ 0.15mm	± 220 - 240 °C	± 0 - 65 °C	≥ 0.10mm	± 50 - 100%	No
ClearScent ABS	≥ 0.15mm	± 220 - 260 °C	± 90 - 100 °C	≥ 0.10mm	± 0 - 30%	Recommended
Crystal Flex	≥ 0.15mm	± 230 - 260 °C	± 80 - 100 °C	≥ 0.10mm	± 0 - 30%	No
EasyCork	≥ 0.4 mm	± 215 - 260 °C	± 0 - 60 °C	≥ 0.20mm	± 50 - 100%	No
EasyFil ABS	≥ 0.15mm	± 225 - 270 °C	± 90 - 110 °C	≥ 0.10mm	± 0 - 30%	Recommended
EasyFil HIPS	≥ 0.15mm	± 220 - 260 °C	± 90 - 110 °C	≥ 0.10mm	± 0 - 30%	No
EasyFil PLA	≥ 0.15mm	± 200 - 230 °C	± 0 - 60 °C	≥ 0.10mm	± 50 - 100%	No
EasyWood	≥ 0.40mm	± 210 - 240 °C	± 0 - 60 °C	≥ 0.20mm	± 50 - 100%	No
FlexiFil	≥ 0.15mm	± 220 - 260 °C	± 90 - 110 °C	≥ 0.10mm	± 50 - 100%	No
Galaxy PLA	≥ 0.4 mm	± 215 - 235 °C	± 0 - 60 °C	≥ 0.15mm	± 50 - 100%	No
HDglass	≥ 0.15mm	± 200 - 240 °C	± 60 - 80 °C	≥ 0.10mm	± 30 - 100%	No
Helios Support	≥ 0.15mm	± 235 - 255 °C	± 65 - 75 °C	≥ 0.10mm	± 0 - 30%	No
LimoSolve	≥ 0.15mm	± 220 - 260 °C	± 90 - 110 °C	≥ 0.10mm	± 20 - 50%	No
MagicFil Thermo PLA	≥ 0.15mm	± 200 - 230 °C	± 0 - 60 °C	≥ 0.10mm	± 50 - 100%	No
Matt PLA	≥ 0.4mm	± 210 - 235 °C	± 0 - 60 °C	≥ 0.10mm	± 50 - 100%	No
MetalFil	≥ 0.40 mm	± 215 - 235 °C	± 0 - 60 °C	≥ 0.20mm	± 50 - 100%	No
Pegasus PP UltraLight	≥ 0.40mm	± 215 - 245 °C	± 0 - 100 °C	≥ 0.10mm	± 50 - 100%	No
Premium ABS	≥ 0.15mm	± 220 - 270 °C	± 90 - 110 °C	≥ 0.10mm	± 0 - 30%	Recommended
Premium PLA	≥ 0.15mm	± 200 - 230 °C	± 0 - 60 °C	≥ 0.10mm	± 50 - 100%	No
Python Flex	≥ 0.25mm	± 220 - 250 °C	± 0 - 60 °C	≥ 0.10mm	± 50 - 100%	No
ReForm rPet	≥ 0.15mm	± 200 - 240 °C	± 65 - 75 °C	≥ 0.10mm	± 0 - 30%	No
ReForm rPLA	≥ 0.15mm	± 200 - 230 °C	± 0 - 60 °C	≥ 0.06mm	± 50 - 100%	No
ReForm rTitan	≥ 0.15mm	± 240 - 265 °C	± 80 - 90 °C	≥ 0.10mm	± 0 - 30%	Recommended
Silk Gloss PLA	≥ 0.15mm	± 215 - 230 °C	± 0 - 60 °C	≥ 0.10mm	± 50 - 100%	No
StoneFil	≥ 0.40mm	± 215 - 240 °C	± 0 - 60 °C	≥ 0.2mm	± 50 - 100%	No
STYX-12	≥ 0.15mm	± 240 - 270 °C	± 80 - 120 °C	≥ 0.10mm	± 0 - 30%	Yes
TitanX	≥ 0.15mm	± 240 - 265 °C	± 70 - 100 °C	≥ 0.10mm	± 0 - 30%	Recommended
Volcano PLA	≥ 0.2mm	± 230 - 255 °C	± 0 - 60 °C	≥ 0.06mm	± 50 - 100%	No
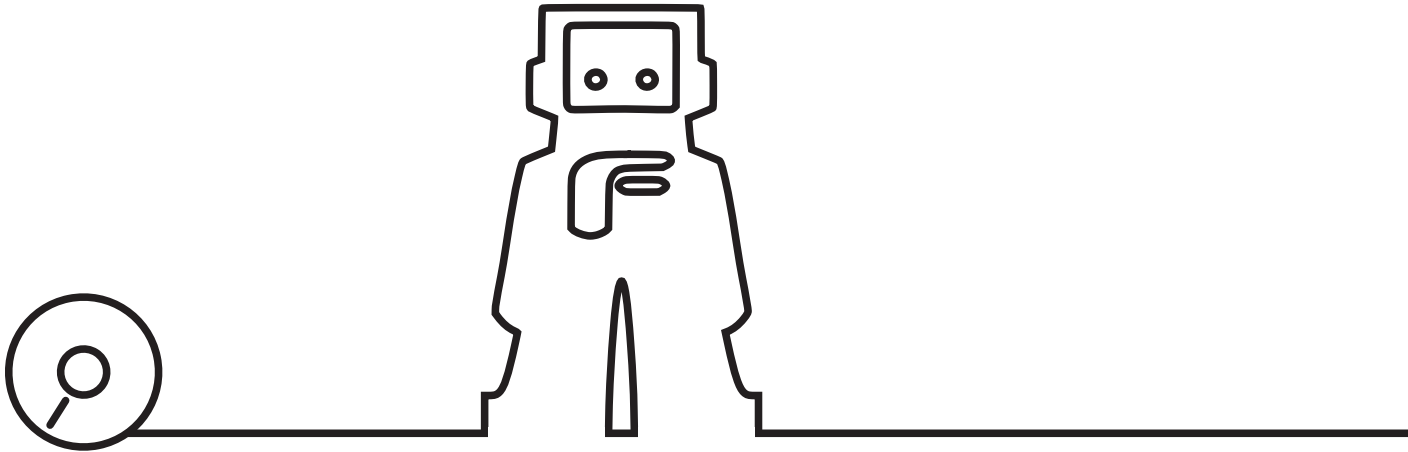
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