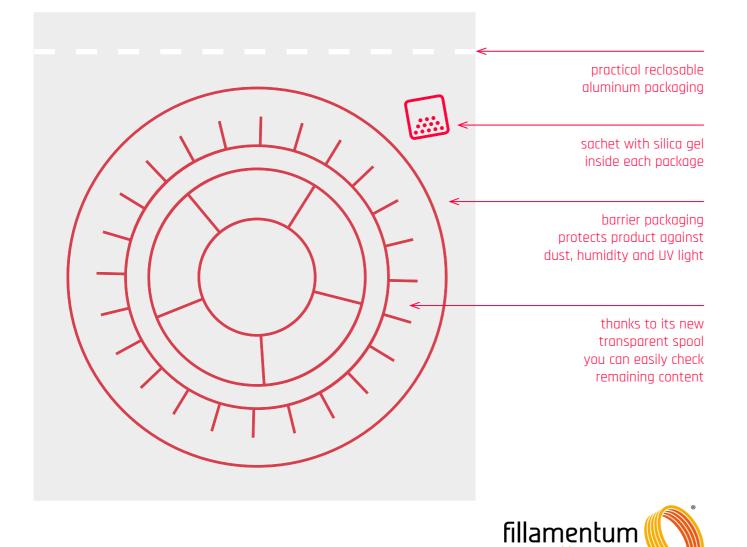


Product Catalogue

Autumn 2016

We introduce you Fillamentum packaging design



Content

PLA Extrafill	4
PLA Crystal Clear	10
PLA Extrafill Premium	11
ABS Extrafill	12
Nylon FX256	17
Nylon CF15	18
Nylon AF80	19
ASA	20
CPE	22
Maxi Spool	23
Flexfill	24
Timberfill	28
Support Materials	32
Accessories	34
Contacts	35

PLA Extrafill

Fillamentum PLA Extrafill is a material for the FFF (also known as FDM) 3D printing technology.

The advantage of this material is that it can be used in 3D printers easily, that it allows a high quality of printing even in tricky details and an excellent lamination of the printed object.

PLA filament is made of natural ingredients and is easily biodegra-

Fillamentum guarantees high precision of filament dimensions within the tolerance of \pm 0.05 mm, which is strictly controlled throughout the production.

Printing filaments reported on the market under the trademark Fillamentum are produced in a dance with the colour charts RAL and Pantone, and also in own unique colour ranges.

Weight: > 750 g

PLA Extrafill



Natural RAL: N/A Pantone: N/A















RAL: 5001 Pantone: P302









Chocolate Brown RAL: 8017 Pantone: P497







Iron Grey RAL: 7011 Pantone: P5477





Light Ivory RAL: 1015 Pantone: P726



Luminous Green



RAL: 6038 Pantone: P802 2x



PLA Extrafill

Weight: > 750 g

Weight: > 750 g

PLA Extrafill



Luminous Orange RAL: 2005 Pantone: P1788 2x



RAL: 3024 Pantone: P185



Luminous Yellow RAL: 1026 Pantone: Pyellow







Melon Yellow RAL: 1028 Pantone: P137



(1.75) (2.85) mm

(1.75 mm) (2.85 mm)

1.75 (2.85) mm

Metallic Grey RAL: N/A Pantone: N/A



Purple Red RAL: 3004 Pantone: P91





Signal Brown RAL: 8002 Pantone: P478



(1.75 mm) (2.85 mm)

1.75 (2.85 mm)



Signal Red RAL: 3001 Pantone: P484



Signal Yellow RAL: 1003 Pantone: P137





Sky Blue RAL: 5015 Pantone: P3015



Sulfur Yellow RAL: 1016 Pantone: P604



(1.75) (2.85) mm

(1.75 mm) (2.85 mm)

Traffic Black RAL: 9017 Pantone: P426





Traffic Purple RAL: 4006 Pantone: P465





RAL: 3020 Pantone: P485



RAL: 9016 Pantone: P705







Traffic Yellow RAL: 1023 Pantone: P1235





Turquoise Blue RAL: 5018 Pantone: P3145



RAL: 6016 Pantone: P342



Wonderful design of 3D printed chandelier by fillamentum addi(c)tive polymers talended Slovak designer Silva Lovasova, awarded at the Bratislava Design Week Award 2015

Silva Lovasova works with Crystal Clear

Silva says "Luster is an experimental lighting printed on my desktop 3d printer. While working on the first prototype I was looking for the best clear filament, as not every transparent filament has the right color. At the time I found out that czech producer Fillamentum was working on Crystal Clear. It's the best choice. And because Fillamentum is company of design enthusiasts and supporters, I can work on more colors for my printing now. Thank You!"

www.silvalovasova.sk







PLA Crystal Clear *

Weight: > 750 g



Crystal Clear RAL: N/A Pantone: N/A





RAL: N/A Pantone: N/A



Weight: > 750 g

PLA Extrafill Premium



Everybody's Magenta RAL: N/A

Pantone: N/A

Pearl Green

Pantone: P356

RAL: 6035



Gold Happens

Pearl Night Blue

Pantone: P533

RAL: 5026

RAL: N/A Pantone: N/A











RAL: 3032 Pantone: P208



11

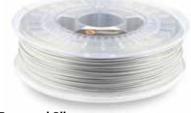




Pearl Violet

RAL: 4011 Pantone: P2655





Rapunzel Silver

RAL: N/A Pantone: N/A





ABS Extrafill

Fillamentum ABS Extrafill is a ma-FDM) 3D printing technology.

that it can be used in 3D printers and an excellent lamination of the

first functional samples before but also for the production

food industry is dependent on the final product and responsibility for use on a processor ABS Extrafill. ABS is not intended for medical

within the tolerance of \pm 0.05 mm,

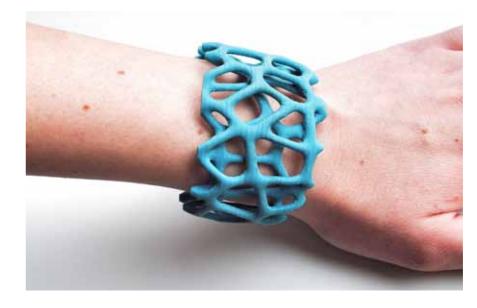
Printing filaments reported on Fillamentum are produced in dance with the colour charts RAL and Pantone, and also in own

Diameter

>>> Hot pad:







Beautiful and inspirative bracelet from talented Hungarian designer Peter Szabo, printed out of Fillamentum.

(photo from parametric-art.com)

parametric | art

ABS Extrafill

Weight: > 750 g

Weight: > 750 g

ABS Extrafill



Natural RAL: N/A Pantone: N/A



Cobalt Blue RAL: 5013 Pantone: P5255



Concrete Grey RAL: 7023 Pantone: P424





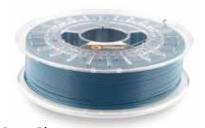


Traffic Black RAL: 9017 Pantone: Pblack 2 2x



Traffic Purple RAL: 4006 Pantone: P465





Green Blue RAL: 5001 Pantone: P302



Luminous Orange RAL: 2005 Pantone: P1788 2x



Metallic Grey RAL: N/A Pantone: N/A





(1.75) (2.85) mm



Traffic White RAL: 9016 Pantone: P705









Signal Brown RAL: 8002 Pantone: P478



(1.75) (2.85) mm

1.75 (2.85) mm



Signal Red RAL: 3001 Pantone: P484



1.75 (2.85) mm

1.75 mm 2.85 mm

1.75 (2.85 mm)



Signal Yellow RAL: 1003 Pantone: P137





Transparent RAL: N/A Pantone: N/A





RAL: 5018 Pantone: P3145



RAL: 6016





Technical Polymers for industrial applications

Nylon FX256

Fillamentum Nylon FX256 is a material for the FFF (also known as FDM) 3D printing technology.

The main advantage of this filament is that it is an incredibly strong, durable and versatile 3D printing material. Flexible when thin layer, but with very high inter-layer adhesion. Its low friction coefficient and high melting temperature makes it an excellent choice for printing functional and technical parts. Unlike ABS and PLA filaments is Nylon FX256 far less brittle and therefore stronger.



Natural * Weight: > 750 g





Diameter tolerance:

± 0.05 mm

Working temperature:

225°C

\$\$\$ Hot pad:

50 - 80 °C

* more colors available soon

Nylon CF15 with carbon fibres

Fillamentum Nylon CF15 is a Nylon based carbon fibres reinforced material for the FFF (also known as FDM) 3D printing technology.

It is characterized not only by high strength and high thermal or chemical resistance, but also better processing stability and rheological properties. Typical is also low thermal expansion. This material is suitable for printing of frequently stressed parts, for example bearings etc.

Note: Nylon CF15 has abrasive properties. It is mean that will accelerate the nozzle-wear of brass nozzles faster than unfilled filaments. The hardened steel nozzles are recommended.



Natural Weight: > 750 g



Diameter tolerance: ± 0,1 mm

Working temperature: 225 °C

\$\$\$ Hot pad: 50 - 80 °C

Nylon AF80 with aramid fibres

Fillamentum Nylon AF80 is a Ny-Ion based aramid fibres reinforced material for the FFF (also known as FDM) 3D printing technology.

Its main advantages are not only high strength and high thermal or chemical resistance, but also better processing stability and rheological properties. Typical is also low thermal expansion. This material is suitable for printing of frequently stressed parts (for example bearings etc.) and thanks to aramid fibres can be used as replacement of metals.



Natural Weight: > 750 q





Diameter tolerance:

± 0.1 mm



Working temperature:

225°C



50 - 80 °C

19

* available soon * available soon

ASA

Thanks to mechanical properties is ASA filament a polymer which is ideal for the production of the first functional samples before serial production for functional prototyping, manufacturing tools, but also for the production of goods for everyday usage including outdoor applications.

The advantage of this material is its excellent weather resistance, retention of physical features; eg. ASA has a rigidity higher than ABS and thus is suitable material for demanding applications. ASA material has low levels of yellowing, which is very important for applications where long-term emphasis is placed on appearance. Another advantage is its good dimensional stability.

Fillamentum does not take any responsibility for the usage of Extrafill ASA by the processor.

Diameter

tolerance:

± 0.05 mm

Working

250 - 255 °C temperature:

SSS Hot pad: 80 - 100 °C

Weight: > 750 g



Natural RAL: N/A Pantone: N/A











ASA





RAL: 5015 Pantone: P3015





Traffic Black RAL: 9017 Pantone: Pblack 2 2x



Traffic Red RAL: 3020









Traffic White RAL: 9016 Pantone: P705





RAL: 1023 Pantone: P1235





CPE

Fillamentum CPE (co-polyester) is a high-technical material for the FFF (also known as FDM) 3D printing technology.

It excels in ease of processing and is good for application with low crystallisation rate, it is durable and human-friendly material, which can be recycled. Another advantages are: less shrinkage than ABS, lower water absorption than Nylon, high impact, heat and chemical resistance or dimensional stability. Thanks to its optical properties it can be coloured without loosing transparency (it will be developed later).

Diameter

tolerance: ± 0.05 mm



Working

temperature: 215 - 225 °C



\$\$\$ Hot pad:

80 - 100 °C



CPE HG100 natural Weight: > 750 g







CPE HM100 natural Weight: > 750 g





Maxi Spool



Economical 2.5 kg spool available for **ABS, PLA** and ASA*

Weight: > 2500 g





RAL: N/A, Pantone: N/A

Green Grass

Metallic Grey



RAL: 6010. Pantone: P349



RAL: N/A. Pantone: N/A



Sky Blue RAL: 5015, Pantone: P3015





RAL: 9016, Pantone: P705

Traffic White

Traffic Yellow



RAL: 1023. Pantone: P1235

23

Traffic Red

RAL: 3020. Pantone: P485

* available soon * more materials reeled on Maxi Spool on request

Flexfill

Would you like your 3D models to stand out by their elasticity and flexibility but you could not find a suitable elastic material that would fulfill your idea?

We have a solution - try printing flexible parts with Flexfill 3D printing filament in two hardness shores (92A, 98A) by Fillamentum. And if you have a printer with two print heads you can use Flexfill to add an extra layer which will make a surface soft to touch.

Flexfill series filament is the leading flexible filament in the industry. Its unique features of flexibility and elasticity provides reliable and high quality prints.









Weight: > 500 g

Flexfill 92A



Natural RAL: N/A Pantone: N/A







Metallic Grey RAL: N/A Pantone: N/A





Signal Red RAL: 3001 Pantone: P484





RAL: 1003 Pantone: P137



Sky Blue RAL: 5015 Pantone: P3015





Traffic Black RAL: 9017 Pantone: P426



* available soon

Flexfill 98A

Weight: > 500 g



Natural RAL: N/A Pantone: N/A



(1.75 mm) (2.85 mm)

(1.75 mm) (2.85 mm)

RAL: 6038 Pantone: P802 2x



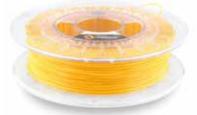
Metallic Grey RAL: N/A Pantone: N/A





Signal RedRAL: 3001
Pantone: P484

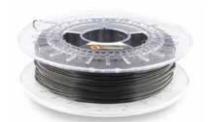




RAL: 1003 Pantone: P137



RAL: 5015 Pantone: P3015



Traffic BlackRAL: 9017
Pantone: P426



1.75 (2.85) mm

1.75 (2.85) mm





design made by Oldřich Vojta construction by Martin Hřeben print by Petr Bláha photo by Ivan Pinkava printed out of Flexfill



Timberfill

Fillamentum Timberfill is a material for the FFF (also known as FDM) 3D printing technology.

The advantage of this material is that it can be used in 3D printers easily, that it allows a high quality of printing even in tricky details and an excellent lamination of the

Timberfill filament is made of biodegradable material based on wood. The material exhibits similar mechanical features as ABS or PLA and models printed with this material have a genuine appearance of wood.

For achieve the best prints quality is recommended min. 0,5 mm

Fillamentum guarantees high precision of filament dimensions within the tolerance \pm 0.1 mm, which is strictly controlled throughout the production.

♣ Diameter

± 0.1 mm tolerance:

170 - 185 °C

The minimum

diameter

0.4 mm of the nozzle:

Weight: > 750 g

Timberfill



Cinnamon RAL: N/A Pantone: N/A









Light Wood Tone RAL: N/A Pantone: N/A





Rosewood RAL: N/A Pantone: N/A



Akemake - pioneers of Timberfill printed designs



The speaker, called the Spirulida, was designed by Ondra Chotovinsky (Akemake), and is based on a deep sea squid-like species – the Spirulida.

"Spirulida is the World's First Desktop Speaker you can easily print and assemble by yourself. Its form and full range speaker system are a marriage of quality sound and modern aesthetics – producing a timeless piece that allows you to stream 3D printing ideology with us." says designer from Akemake.



Support materials

PVA

The advantage of this material is that it can be used in 3D printers printed object.

PVA filament is made of a po-

HIPS

HIPS is one of the new materials. which began to be used for 3D

HIPS filament is made of a

Material dissolves in Lemonesol.

Lemonesol

without any effect on the quality made of oil from the peel of citrus ded for internal and needs to be worked with in a well-ventilated

PVA, HIPS, Lemonesol







HIPS Extrafill Natural (1.75 mm) Weight: > 750 g





 $\pm 0.05 \, \text{mm}$

245 - 250 °C

90 - 100 °C



315 (625 ml)

33

How to use Lemonesol:

Simply submerge your model in the liquid for 2 or more hours. Your HIPS filament will become slimy and will eventually dissolve; your ABS model will remain unharmed.

PVA	Extrafil	ll Natura
Weir	1ht: > 51	nn n

Diameter

tolerance: ± 0.1 mm



Working temperature:

205 - 220 °C

Workina temperature:

Diameter

tolerance:

>>> Hot pad:

Accessories

Magigoo 3D printing adhesive

MAGIGOO is an easy to use 3D printing adhesive designed to address 'the first layer not sticking problem', the most common problem found in FDM 3D printing technology. This problem occurs when the print detaches itself from the printing platform ruining itself. Perfecting the first layer is vital to get a great foundation for the rest of the print. MAGIGOO has been specifically designed for use with both PLA and ABS filaments.

MAGIGOO is easily cleaned with water – the most universal and easily attainable of solvents! After each print the build plate should be cleaned using a damp cloth. This will remove excess build-up of MAGIGOO.

MAGIGOO's adhesive properties are designed to release the 3D print once the build plate has cooled down. You will hear a distinctive 'crackling' sound for both ABS and PLA during the cooling process. Once cooled, 3D prints can easily be removed without the use of tools and excessive force.



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