

Spectrum

FILAMENTS

**3D Printing Filament
Manufacturer**



PRODUCT PORTFOLIO 2023

About us



Company

Spectrum Filaments, is a 3D printing filament extrusion technology oriented company, opened to new ideas and ready to follow customer expectations, at the same time offering the production capabilities of one of the largest filament manufacturers in Europe.

We are a manufacturer and supplier of high quality filament for 3D printers operating in FFF/ FDM technology. Innovation, extrusion know-how and highest quality filaments are the pillars of Spectrum's philosophy. A strong team is working continuously on the development of new materials and their applications to allow customers to use their 3D printers more efficiently and remain competitive.

Optimized materials

Filaments manufactured by Spectrum are advanced, high quality materials with a comprehensive range of properties and applications, ranging from high

performance to unique aesthetic solutions. Specially chosen raw materials and attention to the details in the production process let each user to transfer even the most multidimensional project to the real world. A modern production lines equipped with non-standard solutions allow to obtain chosen color, as well as to maintain important mechanical properties of the filament.

Wide product portfolio

Our portfolio consists of over 50 filaments for 3D printing, differentiated in terms of aesthetic values, mechanical parameters and potential applications. We believe that our offer, which is divided into three segments: desktop easy-to-use materials for low cost 3D printers, industrial grade and high performance materials consisting of engineering thermoplastics, high tech ceramics and other compositions targeted to high-end 3D printers users and industrial applications, are suitable for every solution.



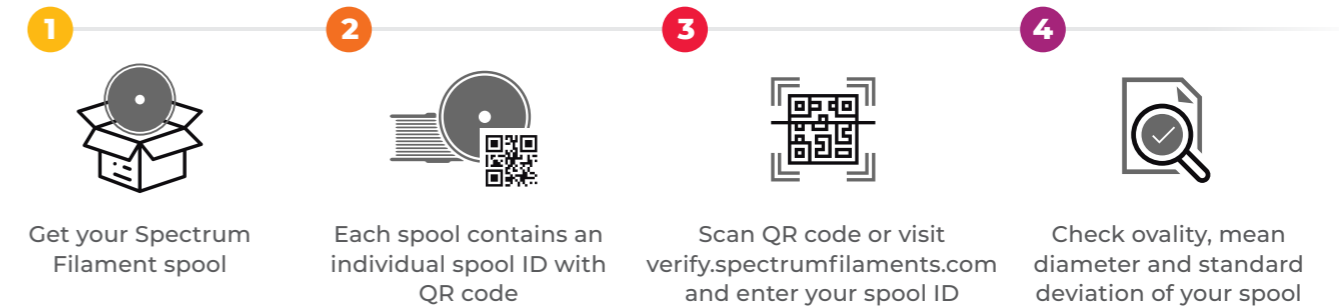
Filament for 3D printers is manufactured by the method of free extrusion. This is one of the most difficult processing techniques by extrusion, due to the particularly large impact of process parameters on product dimensions and material homogenization.

Our technological know-how and experience in filament production allow us to obtain a high-quality final product. To prove this, Spectrum Filaments, as one of the few manufacturers in the world, has introduced the possibility of online presentation, individually for each manufactured spool:

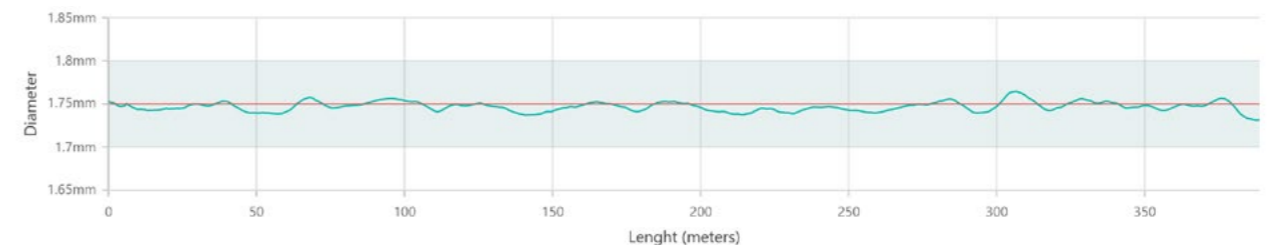
- ✓ The course of diameter on the entire length of the spool,
- ✓ Mean diameter,
- ✓ Ovality,
- ✓ Standard deviation.

During the production each 1 mm of filament is being continuously measured in 2 axes with $\pm 0.8 \mu\text{m}$ accuracy. To be sure that the measurement result is reliable we use certified laser meter devices.

How does the verification system work?

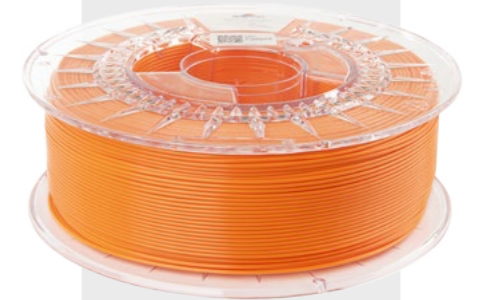


Attribute	Value
Diameter	1.75 mm
Material	PLA Pro
Color	LION ORANGE
Mean diameter	1.747 mm
Ovality	0.45%
Standard deviation	6.81 μm
Print temp.	185 - 230 $^{\circ}\text{C}$
Bed temp.	0 - 45 $^{\circ}\text{C}$
Date of production	2022-02-19



Verify your spool

The most precise quality control system on the market



Scan for details



JhN5LB8n
SPOOL ID

Desktop filaments

Bio-based materials

PLA Premium	High quality PLA, biodegradable, user friendly, very wide range of colors
GreenyHT	High heat resistance, biodegradable, plasticizer-free, increased rigidity & hardness
PLA Glitter	Unique glitter-gloss effect, reduced visibility of layers, not abrasive
PLA Tough	Tough like ABS, easy to print like PLA
PLA MATT	Matte surface, UV stabilization, improved strength properties
PLA Pro	Alternative to ABS, high impact strength, improved heat-resistance & flow index
PLA SILK	Original, phenomenal colors; unique aesthetic properties, user friendly
PLA Glow in the Dark	Strong phosphorescence effect, smooth surface after printing
PLA Carbon	10% Carbon fiber reinforced, improved hardness & rigidity
PLA Stone Age	Original, unique marble effect; layer masking, not abrasive
PLA Thermoactive	Thermochromic effect, color changing ability at ca. 30°C
WOOD	Natural wood content, perfect side surface of prints, wood appearance

Recycled materials

rPLA	Created by reusing the recycled extrusion residual waste stream, lower environmental impact
rPETG	Created by reusing the recycled extrusion residual waste stream, lower environmental impact

Styrene-based materials

Smart ABS	High quality ABS, reduced shrinkage, high impact resistance & rigidity, increased flow index
ASA 275	Easy to print, excellent resistance to external exposure and changing weather conditions, high printing speed (up to 200mm/s)
ASA-X CF10	10% Carbon fiber reinforced, improved thermal resistance, outdoor use in conditions of increased exposure to UV radiation & humidity
HIPS-X	light, fully soluble in D-Limonene, HDT B 88°C

Co(Polyester)

PET-G Premium	High quality PET-G, combines advantages of PLA & ABS, odour-free printing, chemical resistance
PET-G Glitter	Unique glitter-gloss effect, reduced visibility of layers, not abrasive
PET-G Carbon	10% Carbon fiber reinforced, improved hardness & rigidity
PET-G Glow in the Dark	Strong phosphorescence effect, smooth surface after printing
PET-G MATT	Matte surface, UV stabilization, improved strength properties
PET-G Flame Retardant V0	Flame retardant, free of halogens, designed to meet UL 94 V0 standards
PET-G/PTFE	10% PTFE reinforced, reduced coefficient of friction, tribological properties
PCTG Premium	High quality PCTG, excellent alternative to PET-G, increased impact strength, combines features of Tough PLA and PET-G Premium
PCTG CF10	10% Carbon fiber reinforced, high stiffness and tensile strength, good impact and chemical resistance
PCTG GF10	10% Glass fiber reinforced, good corrosion and chemical resistance, high stiffness

Flexible

S-Flex 85A	Up to 650% elongation at break, Shore 85A, high tensile & tear resistance
S-Flex 90A	Up to 500% elongation at break, Shore 90A, oils & chemical resistance
S-Flex 98A	Up to 510% elongation at break, Shore 98A, high tensile & tear resistance

Polyamide

PA6 Low Warp	Easy to print Nylon, good tribological properties, chemical resistance to lubricants & oils
PA6 Low Warp CF15S	15% Carbon fiber reinforced, heat-stabilized, increased stiffness & tensile strength
PA6 Low Warp GF30	30% Glass fiber reinforced, heat-stabilized, excellent chemical resistance

Industrial filaments

Polyamide

PA6 CF15	15% Carbon fiber reinforced, high Z-strength, high temperature resistance, reduced moisture & water absorption, exceptionally low linear shrinkage, increased mechanical strength	LUVOCOM 3F LUVOCOM® 3F PA ^{HT} CF 9742 BK
PA6 GK10	10% Glass microspheres reinforced, stiffer & lighter than pure polyamide, low impact of moisture, high temperature resistance, good electrical insulation properties	LUVOCOM 3F LUVOCOM® 3F PA ^{HT} GK 9874 NT
PA6 Neat NT	High temperature, unreinforced, chemical resistance to oils & lubricants, relatively high resistance to corrosion stimulators & good electrical insulation	LUVOCOM 3F LUVOCOM® 3F PA ^{HT} 9875 NT
PA6 Neat BK	High temperature, mineral filler, good tribological properties, chemical resistance to oils & lubricants, good electrical insulation properties	LUVOCOM 3F LUVOCOM® 3F PA ^{HT} 9936 BK
PA6 CS20 FR V0	Ceramic spheres, flame retardant, UL-94 V0 flammability achieved on ≥0.4 mm thick printed parts, halogen free, high mechanical strength	LUVOCOM 3F LUVOCOM® 3F PAHT KK 50056 BK FR

Co(Polyester)

PET-G HT100	Improved temperature resistance, excellent dimension stability & toughness, high mechanical strength, chemical resistance, low odour	
PET-G FX120	Flexible, Shore hardness 95A, excellent durability & temp. resistance, steam sterilisation possibility	
PET CF15	15% Carbon fiber reinforced, high Z-strength; high hardness, stiffness & creep resistance, excellent interlayer adhesion, chemical resistance to lubricants & oils	LUVOCOM 3F LUVOCOM® 3F PET CF 9780 BK
ecoPET 9021	90% Recycled content, very good impact strength, rigidity increased by 50%, tensile strength increased by 20%	LUVOCOM 3F LUVOCOM® eco PET 50291 BK

Styrene-based materials

ABS GP450	All-purpose, industrial grade, high mechanical strength & impact resistance, high printing speed (200mm/s), very robust interlayer adhesion
ABS Medical	Manufactured using ABS pellets that meet the biocompatibility requirements of USP Class VI or ISO 10993-1 certifications
ABS Kevlar	10% Aramid fiber reinforced, high rigidity & impact strength, excellent dimensional stability
ASA Kevlar	10% Aramid fiber reinforced, UV resistance, good aging resistance, excellent resistance to external exposure

Polypropylene

PP	PP-copolymer unreinforced, outstanding chemical resistance, ultimate elongation - 500%; good temperature & electrical resistance	LUVOCOM 3F LUVOCOM® 3F PP 9929 NT
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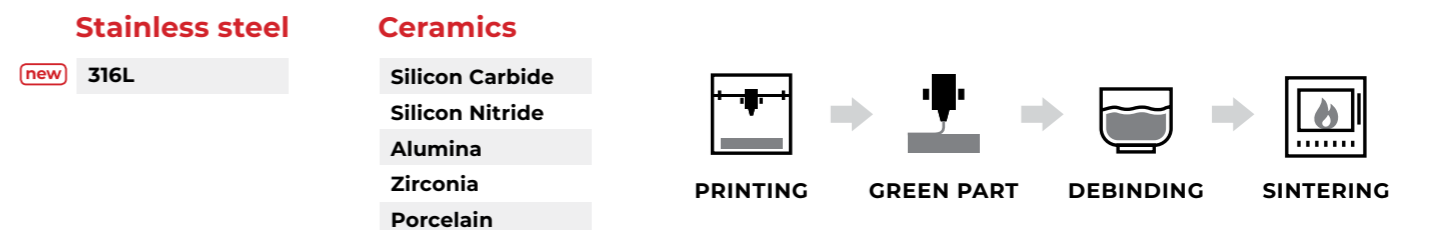
Polycarbonate

PC/PTFE	10% PTFE reinforced, improved thermal stability, increased electrical insulation, high abrasion resistance
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Polyphenylene sulfide

PPS AM230	High performance, excellent chemical resistance, high dielectric strength, exceptionally high mechanical properties
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High performance (sintering)



COOPERATION PARTNERS:



Desktop filaments comparison

	Nozzle temp. [°C]	Bed temp. [°C]	Printing speed [mm/s]	Cooling	Density [g/cm³]	Closed chamber for printing	Dry box recommended	Ruby or hardened nozzle recommended	Ease of print	Toughness	Hardness	Impact resistance	Ultimate tensile strength	Elongation at break	Heat resistance		Surface finish	Adhesive
Bio-based																		
PLA Premium	185-215	0-45	40-150	Up to 100%	1.24	not necessary	No	No	10	6	9	3	6	5	2	HDT - 55°C	shiny	not necessary*
GreenyHT	190-220	0-45	30-100	Up to 100%	1.54	not necessary	No	No	10	5	8	1	6	4	4	HDT B - 87°C, VICAT - 98°C	matte, rough	not necessary*
PLA Glitter	185-215	0-45	40-90	Up to 100%	1.24	not necessary	No	No	10	6	9	3	6	5	2	HDT - 55°C	shiny	not necessary*
PLA Tough	190-230	0-45	40-130	Up to 100%	1.20	not necessary	No	No	10	5	7	3	4	6	2	HDT - 55°C	semi-matte	not necessary*
PLA MATT	190-230	0-45	40-110	Up to 100%	1.24	not necessary	No	No	10	5	9	2	4	3	4	HDT B - 116°C (annealed), VICAT - 85°C (annealed)	matte	not necessary*
PLA Pro	185-230	0-45	40-150	Up to 100%	1.22	not necessary	No	No	10	6	9	6	5	6	4	HDT - 85°C (annealed)	shiny	not necessary*
PLA SILK	210-240	40-60	40-110	Up to 100%	1.22	not necessary	No	No	10	3	3	3	4	1	2	HDT - 50°C	glossy, silky	not necessary*
PLA Glow in the Dark	185-225	0-45	40-110	Up to 100%	1.24	not necessary	No	No	10	6	9	3	6	5	2	HDT - 55°C	semi-matte	not necessary*
PLA Carbon	190-220	0-45	40-70	Up to 100%	1.30	not necessary	No	Yes	9	4	3	3	6	1	2	VICAT - 60°C	matte, carbon appearance	not necessary*
PLA Stone Age	185-225	0-45	40-80	Up to 100%	1.24	not necessary	No	No	10	6	9	3	6	5	2	HDT - 55°C	satın, stone appearance	not necessary*
PLA Thermoactive	190-220	0-45	40-110	Up to 100%	1.24	not necessary	No	No	10	6	9	3	6	5	2	HDT - 55°C	shiny	not necessary*
WOOD	190-220	0-45	20-50	Up to 100%	1.15	not necessary	No	No	8	5	9	1	5	5	2	HDT - 55°C	matte, rough, wood appearance	not necessary*
Recycled																		
rPLA	190-215	40-50	30-90	Up to 100%	1.24	not necessary	No	No	10	5	8	2	5	5	2	HDT - 55°C	shiny	not necessary*
rPETG	230-255	60-80	40-120	75-100%	1.23	not necessary	No	No	8	5	8	5	5	4	3	HDT B - 70°C	shiny	not necessary*
Styrene-based																		
Smart ABS	230-255	100	40-100	0-25	1.05	recommended for larger prints	No	No	7	6	9	7	5	7	4	HDT A - 85°C, VICAT - 93°C	shiny	not necessary*
ASA 275	200-240	60-80	40-200	0-20	1.07	recommended for larger prints	No	No	9	6	7	7	5	9	4	HDT A - 86°C, VICAT - 94°C	shiny / semi-matte	not necessary*
ASA-X CF10	235-260	90-110	30-70	0-20	1.10	not necessary	No	Yes	6	6	9	3	7	5	5	HDT A - 95°C, VICAT - 101.6°C	matte, carbon appearance	not necessary*
HIPS-X	230-245	80-100	40-100	0-20	1.05	recommended for larger prints	No	No	6	3	4	4	1	2	4	HDT A - 73°C, VICAT - 96°C	matte	not necessary*
Co(Polyester)																		
PET-G Premium	230-255	60-80	40-120	75-100%	1.27	not necessary	No	No	8	6	9	5	5	4	3	HDT B - 78°C	shiny	not necessary*
PET-G Glitter	230-255	60-80	40-100	75-100%	1.27	not necessary	No	No	8	6	9	5	5	4	3	HDT B - 78°C	shiny	not necessary*
PET-G Carbon	230-255	60-80	30-70	75-100%	1.32	not necessary	No	Yes	7	5	8	3	5	4	3	HDT B - 72°C, VICAT - 80°C	matte, carbon appearance	not necessary*
PET-G Glow in the Dark	230-255	60-80	40-110	75-100%	1.27	not necessary	No	No	8	6	9	5	5	4	3	HDT B - 78°C	shiny	not necessary*
PET-G MATT	230-255	60-80	30-70	75-100%	1.35	not necessary	No	No	8	6	8	6	5	4	4	HDT B - 80°C, VICAT - 85°C	matte	not necessary*
PET-G FR V0	230-255	60-80	30-70	75-100%	1.26	not necessary	No	No	6	5	8	2	5	9	3	HDT B - 63°C, VICAT - 70°C	opaque	not necessary*
PET-G/PTFE	230-255	60-80	30-70	75-100%	1.32	not necessary	No	No	6	5	8	2	5	9	3	VICAT - 70°C	semi-matte	not necessary*
PCTG Premium	240-270	60-80	40-110	75-100%	1.27	not necessary	No	No	8	7	9	6	6	4	3	HDT B - 76°C	shiny	not necessary*
PCTG CF10	250-270	>50	30-80	50-85%	1.28	not necessary	No	Yes	7	6	10	2	6	4	3	HDT B - 78°C, VICAT - 89°C	matte, carbon appearance	not necessary*
PCTG GF10	250-270	>50	30-80	50-85%	1.31	not necessary	No	Yes	7	5	10	2	6	6	3	HDT B - 78°C, VICAT - 89°C	semi-matte	not necessary*
Flexible																		
S-Flex 85A	200-230	50-70	20-70	Up to 100%	1.11	not necessary	No	No	5	4	1	3	5	10	4	HDT B - 72°C	shiny	not necessary*
S-Flex 90A	200-230	50-70	15-50	Up to 100%	1.22	not necessary	No	No	6	3	1	2	5	10	4	HDT B - 74°C	shiny	not necessary*
S-Flex 98A	200-230	50-70	20-70	Up to 100%	1.09	not necessary	No	No	7	5	5	3	6	10	4	HDT B - 75°C	shiny	not necessary*
Polyamide																		
PA6 Low Warp	250-280	85-100	30-70	0-30%	1.15	recommended	Yes	No	4	4	5	3	5	2	2	HDT B - 60°C	shiny	not necessary (!)
PA6 Low Warp CF15S	250-280	<80	30-70	0-30%	1.28	recommended for larger prints	Yes	Yes	5	7	9	2	10	3	9	HDT B - 180°C	matte, carbon appearance	not necessary (!)
PA6 Low Warp GF30	250-280	<80	30-70	0-30%	1.34	recommended for larger prints	Yes	Yes	5	6	9	2	7	2	9	HDT B - 180°C	semi-matte, rough	not necessary (!)

Disclaimer

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Adhesives:

* For increased adhesion or to prevent warping: glue stick, Dimafix, 3DLac, Magigoo (!) - Magigoo PA

Industrial filaments comparison

	Nozzle temp. [°C]	Bed temp. [°C]	Printing speed [mm/s]	Cooling	Density [g/cm³]	Closed chamber for printing	Dry box recommended	Ruby or hardened nozzle recommended	Ease of print	Toughness	Hardness	Impact resistance	Ultimate tensile strenght	Elongation at break	Heat resistance		Surface finish	Adhesive	
Polyamide																			
PA6 CF15 LUVOCOM 3F	260-290	<80	30-60	0-10%	1.25	not necessary	Yes	Yes	4	9	9	5	10	4	10	HDT A - 200°C, continous service temp. (20.000h) - 150°C, service temp. (200h) - 180°C	matte, carbon appearance	recommended (1)	
PA6 GK10 LUVOCOM 3F	260-290	<80	30-80	0-10%	1.01	recommended for larger prints	Yes	Yes	3	6	8	4	8	4	5		opaque	recommended (1)	
PA6 Neat Natural LUVOCOM 3F	250-280	60-80	30-70	0-10%	1.14	recommended for larger prints	Yes	No	5	7	8	7	7	4	5		HDT A - 90°C, continous service temp. (20.000h) - 120°C, service temp. (200h) - 160°C	semi-matte	recommended (1)
PA6 Neat Black LUVOCOM 3F	250-280	60-80	30-70	0-10%	1.25	recommended for larger prints	Yes	No	5	7	8	6	7	4	5		semi-matte	recommended (1)	
PA6 CS20 FR V0 LUVOCOM 3F	260-290	>80	30-70	0-10%	1.49	not necessary	Yes	Yes	4	7	8	5	6	2	5		matte, rough	recommended (1)	
Co(Polyester)																			
PET-G HT100	250-280	100-110	40-100	0-30%	1.18	recommended for larger prints	No	No	6	7	9	9	5	5	5	HDT B - 94°C	shiny	not necessary*	
PET-G FX120	240-260	80	30-70	30-70%	1.13	recommended	Yes	No	4	5	3	3	4	10	9	VICAT - 170°C	shiny	recommended (2)	
PET CF15 LUVOCOM 3F	245-270	50-70	30-80	0-30%	1.40	not necessary	No	Yes	7	7	9	5	7	4	6	Service temp. (200h) - 125°C	matte, carbon appearance	not necessary*	
ecoPET 9021 LUVOCOM 3F	250-275	>50	30-70	50-85%	1.36	recommended for larger prints	No	No	6	6	9	4	6	3	4	Service temp. (200h) - 125°C	shiny	recommended (2)	
Styrene-based																			
ABS GP450	235-255	100	30-200	0-25%	1.04	recommended for larger prints	No	No	7	6	9	7	5	7	4	VICAT - 95°C	shiny	not necessary*	
ABS Medical	235-255	100	30-150	0-25%	1.06	recommended for larger prints	No	No	7	7	8	7	5	8	4	VICAT - 97°C	shiny	not necessary*	
ABS Kevlar	250-270	100	30-70	0-25%	1.05	recommended for larger prints	No	Yes	6	6	9	4	5	5	4	HDT B - 88°C, VICAT - 95°C	matte, rough	not necessary*	
ASA Kevlar	240-270	80-100	30-70	0-25%	1.07	recommended for larger prints	No	Yes	6	6	9	4	5	5	4	HDT B - 89°C, VICAT - 94°C	matte, rough	not necessary*	
Polypropylene																			
PP LUVOCOM 3F	265-295	95-120	30-80	0-35%	0.89	recommended	No	No	2	4	5	6	3	10	6	HDT B - 80°C, VICAT - 135°C	semi-matte	necessary (3)	
Polycarbonate																			
PC/PTFE	265-295	90-120	30-80	0-10%	1.32	recommended	No	No	2	7	8	5	6	6	7	HDT B - 140°C, VICAT - 145°C	semi-matte	necessary (4)	
Polyphenylene sulfide																			
PPS AM230	300-330	100-120	30-70	0-10%	1.33	active heated (60-80°C)	Yes	No	3	7	9	4	6	3	10	HDT B - 129°C, VICAT - 236°C	shiny	necessary (5)	

LUVOCOM® 3F filaments quality was entirely checked and is certified by Lehmann&Voss Co. KG. For LUVOCOM® 3F materials name references see page 5.

Adhesives: * For increased adhesion or to prevent warping: glue stick, Dimafix, 3DLac, Magigoo (1) - Magigoo PA; (2) - glue stick / Dimafix / 3DLac / Magigoo; (3) - MagigooPP; (4) - MagigooPC; (5) - Magigoo Pro HT

High performance filaments comparison

	Nozzle temp. [°C]	Bed temp. [°C]	Printing speed [mm/s]	Cooling	Green density [g/cm³]	Ruby or hardened nozzle recommended	Recommended nozzle diameter	Shrinkage (X/Y)	Shrinkage (Z)	Scaling factor (X/Y)	Scaling factor (Z)	Sintering conditions
316L	155-170	60-70	10-30	Off	7.36	Yes	0.4 - 0.8 mm	16.48%	16.27%	1.20	1.19	> 1.000°C
Silicon Carbide	155-170	60-70	10-30	Off	2.161	Yes	0.4 - 0.8 mm	16.40%	21.20%	1.196	1.269	2.100 - 2.200°C in argon
Silicon Nitride	155-170	60-70	10-30	Off	2.200	Yes	0.4 - 0.8 mm	18.36%	20.36%	1.225	1.256	1.680- 1.750°C in nitrogen at elevated pressue
Alumina	155-170	60-70	10-30	Off	2.533	Yes	0.4 - 0.8 mm	19.00%	21.50%	1.235	1.274	1.475 - 1.640°C in air
Zirconia	155-170	60-70	10-30	Off	3.441	Yes	0.4 - 0.8 mm	20.30%	20.30%	1.255	1.255	1.450 - 1.500°C in air

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COOPERATION PARTNERS:



Desktop filaments color table

PLA Premium



PLA Pro



rPLA



PLA Tough



PLA Stone Age



PLA Thermoactive



PLA Glitter



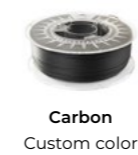
PLA MATT



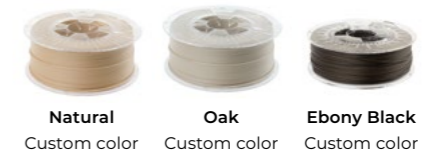
PLA Glow in the Dark



PLA Carbon



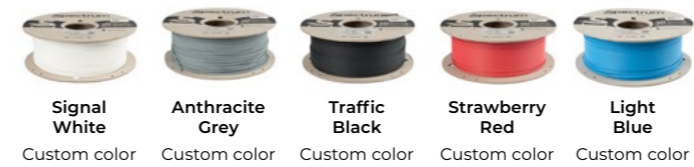
WOOD



PLA SILK



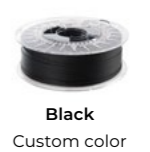
GreenyHT



ASA 275



ASA-X CF10



PET-G Premium



Recycled PET-G



PCTG Premium



PET-G MATT



PET-G FR V0



PET-G Glow in the Dark



PET-G Glitter



PET-G Carbon



PET-G/PTFE



PCTG CF10



PCTG GF10



S-Flex 85A



S-Flex 90A



S-Flex 98A



Smart ABS



HIPS-X



PA6 Low Warp



PA6 Low Warp CF15S



PA6 Low Warp GF30



Industrial filaments color table

PA6 Neat NT



PA6 Neat BK



PA6 CF15



PA6 GK10



PA6 CS20 FR V0



PET CF15



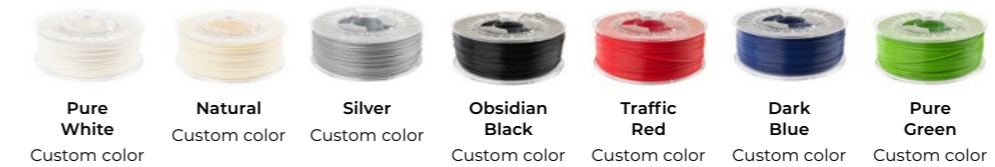
PET-G HT100



ASA Kevlar



ABS GP450



ABS Medical



ABS Kevlar



PC/PTFE



PP



PPS AM230



ecoPET 9021



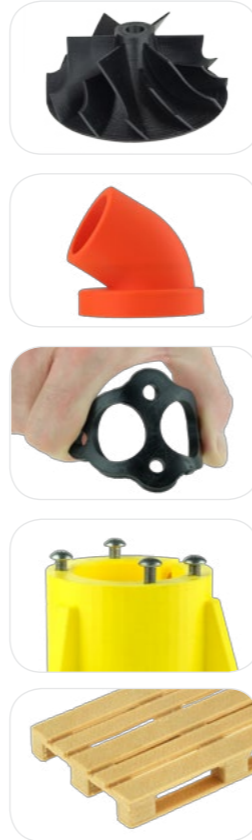
PET-G FX120



Filament sets for start new

Ideal to begin your 3D printing journey!

Eco-friendly cardboard spools
Always 5 spools 0.25 kg each
Various materials & colors



**5 PACK
PLA Premium**
1.75 mm (5x 0.25 kg)

- PLA Premium Polar White
- PLA Premium Deep Black
- PLA Premium Lion Orange
- PLA Premium Pacific Blue
- PLA Premium Lime Green

**5 PACK
PET-G Premium**
1.75 mm (5x 0.25 kg)

- PET-G Premium Arctic White
- PET-G Premium Deep Black
- PET-G Premium Lion Orange
- PET-G Premium Navy Blue
- PET-G Premium Lime Green

**5 PACK
ASA 275**
1.75 mm (5x 0.25 kg)

- ASA 275 Polar White
- ASA 275 Deep Black
- ASA 275 Silver Star
- ASA 275 Navy Blue
- ASA 275 Bloody Red

**5 PACK
PLA SILK**
1.75 mm (5x 0.25 kg)

- PLA SILK Glorious Gold
- PLA SILK Spicy Copper
- PLA SILK Apple Green
- PLA SILK Indigo Blue
- PLA SILK Ruby Red

**5 PACK
PCTG Premium**
1.75 mm (5x 0.25 kg)

- PCTG Premium Arctic White
- PCTG Premium Deep Black
- PCTG Premium Lion Orange
- PCTG Premium Transparent Green
- PCTG Premium Clear

**5 PACK
Premium PLA Essentials**
1.75 mm (5x 0.25 kg)

- PLA Premium Wizard Indigo
- PLA Premium Wizard Green
- PLA Premium Wizard Charcoal
- PLA Premium Caribbean Blue
- PLA Premium Translucent

**5 PACK
PLA Glitter**
1.75 mm (5x 0.25 kg)

- PLA Glitter Aurora Gold
- PLA Glitter Volcano Grey
- PLA Glitter Clear Gold
- PLA Glitter Silver Metallic
- PLA Glitter Stardust Blue

**5 PACK
PLA Specials**
1.75 mm (5x 0.25 kg)

- PLA Stone Age Light
- PLA Stone Age Dark
- PLA Thermoactive Red
- PLA Glow in the Dark Yellow-Green
- WOOD Oak

**5 PACK
Material Mix #1**
1.75 mm (5x 0.25 kg)

- PLA Premium Navy Blue
- PET-G Premium Bloody Red
- PCTG Premium Iron Grey
- PLA SILK Amethyst Violet
- ASA 275 Traffic Yellow

**5 PACK
Material Mix #2**
1.75 mm (5x 0.25 kg)

- PET-G MATT Deep Black
- rPLA Leaf Green
- rPETG Signal Yellow
- PLA Pro Lion Orange
- PET-G HT100 Pure White

**5 PACK
Carbon Set**
1.75 mm (5x 0.25 kg)

- PLA Carbon
- PET-G Carbon
- ASA-X CF10
- PCTG CF10
- PA6 LW CF15S

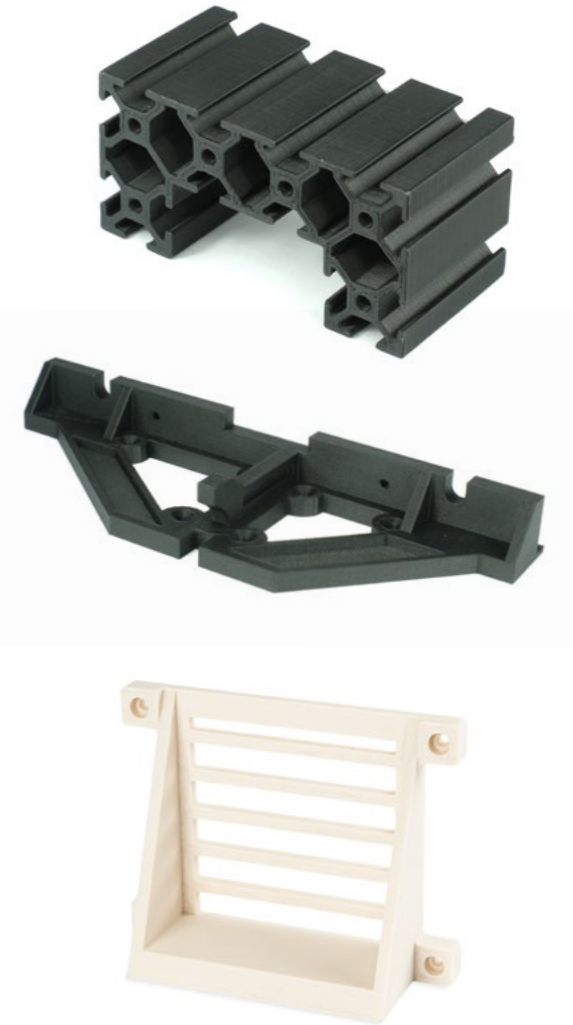
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- High production capacity
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- Private label services
- Technical support

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