

Spectrum

FILAMENTS

**3D Printing Filament
Manufacturer**



**PRODUCT
PORTFOLIO
2024**

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 highly motivated team is working continuously on the development of new materials and their applications to allow customers using 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 nonstandard 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 60 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, is suitable for every solution.

Spectrum Filaments is your trusted partner in the world of 3D printing.



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?



Verify your spool

The most precise quality control system on the market



Desktop filaments

Bio-based

PLA Premium	High quality PLA, biodegradable, user friendly, very wide range of colors
PLA Crystal	Transparent, semi-crystalline prints; increased flow rate; temperature resistance up to 60°C
Pastello PLA	Beautiful pastel shades, unique matte print finish, eco-friendly cardboard spool, recycled content
Huracan PLA	High flow rate enabling fast printing (up to 350 mm/s), high strength comparable to ABS
Light Weight PLA	Active foaming technology; reduced weight up to 50% of printed parts; low density
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
PLA Nature	Bio-filler, unique texture, ease of printing, made of biodegradable raw materials
WOOD	Natural wood content, perfect side surface of prints, wood appearance

Bio-performance

GreenyHT	High heat resistance, biodegradable, plasticizer-free, increased rigidity & hardness
GreenyPro	High impact resistance, excellent flexural strength, biodegradable, food safe, VICAT - 160°C

Recycled

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

Smart ABS	High quality ABS, reduced shrinkage, high impact resistance & rigidity, increased flow index
ASA 275	Easy to print, excellent resistance to external exposure & weather conditions, high printing speed (up to 350mm/s)
ASA-X CF10	10% Carbon fiber reinforced, improved thermal resistance, outdoor use in conditions of increased exposure to UV radiation & humidity
ASA-X CF10	10% glass fiber, excellent resistance to outdoor exposure, UV resistance, perfect bonding of the layers
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 VO	Flame retardant, free of halogens, designed to meet UL 94 VO standards
PET-G/PTFE	10% PTFE reinforced, reduced coefficient of friction, tribological properties
PCTG Premium	High quality PCTG, 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
S-Flex Carbon	20% carbon fiber reinforced, flexibility and resilience, ESD properties, excellent chemical 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

Polycarbonate

PC 275	High impact strength & durability, excellent mechanical properties, reduced shrinkage effect
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Water soluble

AquaPrint	Excellent cold water solubility, biodegradable once dissolved in water, safe dissolution in pure tap water
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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 CK10	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 VO	Ceramic spheres, flame retardant, UL-94 VO flammability achieved on ≥0.4 mm thick printed parts, halogen free, high mechanical strength	LUVOCOM® 3F LUVOCOM® 3F PA ^{HT} 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 S0291 BK

Styrene-based

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	
PC/ABS FR VO	Flame-retardant UL-94 VO, halogen-free, excellent interlayer adhesion	

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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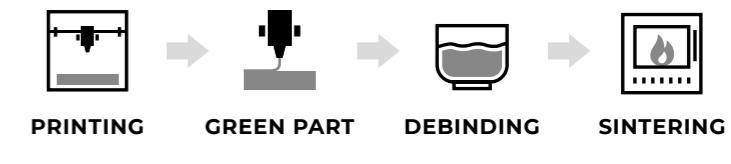
High performance (sintering)

Stainless steel

316L

Ceramics

Silicon Carbide
Silicon Nitride
Alumina
Zirconia
Porcelain



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		High speed	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*	
PLA Crystal	185-215	0-45	40-200	Up to 100%	1.24	not necessary	No	No	9	6	9	3	6	3	2	HDT - 60°C		shiny, semi-transparent	not necessary*	
Pastello PLA	185-215	0-60	40-150	Up to 100%	1.30	not necessary	No	No	9	6	9	3	6	3	2	HDT - 59°C		semi-matte	not necessary*	
Huracan PLA	185-230	0-45	40-350	Up to 100%	1.22	not necessary	No	No	9	6	9	6	5	4	4	HDT - 85°C**		shiny	not necessary*	
Light Weight PLA	200-280	0-45	30-100	Up to 100%	0.52-1.24	not necessary	No	No	8	6	8	3	5	3	2	HDT - 55°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**; VICAT - 85°C**		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**		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		satin, 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*	
PLA Nature	185-215	0-45	40-150	Up to 100%	1.25	not necessary	No	No	9	6	9	3	6	3	2	HDT - 60°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*	
Bio-performance																				
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*	
GreenyPro	190-220	0-45	40-150	Up to 100%	1.34	not necessary	No	No	7	6	8	3	6	3	5	VICAT - 160°C		semi-matte	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*	
ASA-X GF10	240-270	80-100	30-200	0-20%	1.11	not necessary	No	Yes	6	5	9	3	6	2	4	HDT - 100°C		semi-matte	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*	

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	Properties										High speed	Surface finish	Adhesive
									Ease of print	Toughness	Hardness	Impact resistance	Ultimate tensile strength	Elongation at break	Heat resistance						
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, continuous 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, continuous 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 VO	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*		
PC/ABS FR VO		240-265	90-110	40-300	0-25%	1.17	recommended for larger prints	No	No	5	6	8	6	6	4	5	VICAT - 104°C	⌚ shiny	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 pressure
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

DISCLAIMER: The product and technical data provided in this datasheet is correct to the best of Spectrum Group Sp. z o.o. knowledge and are intended for reference and comparison purposes only. Actual values may vary according to printing conditions, model complexity, environmental conditions, etc. Typical values are indicative only and are not to be construed as binding specifications.

COOPERATION PARTNERS:



Filament sets for start

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 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 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 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 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



FGF pellets new

We offer pellets specially designed for large-format 3D printers using FGF technology. The main advantage of 3D printers that enable printing directly from granules is much higher efficiency than when printing from traditional filaments, which significantly reduces the time needed to produce models. Regardless of whether you create prototypes or produce large-scale models, our pellets will meet your needs. Unlike most natural-colored pellets currently offered, our FGF pellets are pre-colored, which means you can print in the color of your choice.



Available materials:

- PLA Premium
- PET-G Premium
- ASA 275
- ASA-X CF10
- PLA Carbon
- PET-G Carbon
- ABS Kevlar



... more coming soon.

ReFill new

In our commitment to offering a diverse range of 3D printing materials, we proudly introduce ReFill filaments. While ReFill Filaments are made from standard materials, their sustainability lies in their efficient production process and reduced environmental impact. We're excited to announce that our selection of ReFill materials will soon expand, providing you with even more eco-friendly options for your 3D printing needs. Choose ReFill for a greener, more sustainable tomorrow.



Available materials:

- PLA Premium
- PET-G Premium
- ASA 275
- rPLA
- rPETG

... more coming soon.

Desktop filaments color table

PLA Premium



Translucent Natural Polar White Arctic White Light Grey Ivory Beige Bahama Yellow Dahlia Yellow
RAL 9003 RAL 9016 RAL 7035 RAL 1015 RAL 1018 RAL 1033



Lion Orange Carrot Orange Fluorescent Orange Fox Orange True Red Bloody Red Dragon Red Cherry Red
HEX #FF6F10 RAL 2008 RAL 040 50 60 P 185 RAL 3020 RAL 3031 RAL 030 30 40



Magenta Pink Panther Signal Violet Lavender Violett Royal Blue Navy Blue Pigeon Blue Pacific Blue
RAL 360 50 50 HEX #FA3E90 RAL 4008 RAL 310 60 25 RAL 260 30 35 RAL 5002 RAL 5014 RAL 5015



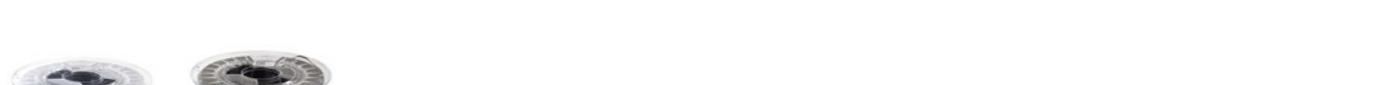
Baby Blue Blue Lagoon Pastel Turquoise Caribbean Blue Chrysocolla Green Flipflop Green Forest Green Oregano Green
HEX #3CB9DD RAL 5018 RAL 180 80 20 RAL 180 40 35 RAL 160 50 60 RAL 140 60 60



Fluorescent Green Lime Green Fluorescent Yellow Military Khaki Pearl Gold Golden Line Rust Copper Pearl Bronze
HEX #18F538 HEX #94DE33 HEX #DEE64C RAL 7008 RAL 1027 RAL 050 50 50



Old Gold Chocolate Brown Wizard Charcoal Wizard Green Wizard Indigo Silver Star Dark Grey Anthracite Grey
HEX #9B8565 RAL 8016 RAL 9007 RAL 7011 RAL 9016



Pearl Grey Deep Black
RAL 9023 RAL 9017

PLA Crystal



Electric Yellow Neon Orange Raspberry Red Frozen Berry Blue Horizon Neon Green

Pastello PLA



Lemon Cream Apricot Orange Pale Salmon Flamingo Red Holland Red Pink Pastel Bonbon Rose Cosmetic Mauve
RAL 090 90 40 RAL 060 80 40 RAL 040 80 30 RAL 030 70 40 RAL 030 50 60 RAL 010 80 20 RAL 340 80 20 RAL 320 80 15



Atmospheric Blue Water Blue Cocktail Green
RAL 230 85 20 RAL 190 85 15 RAL 140 85 30

Huracan PLA



Signal White Light Grey Cream Beige Banana Yellow Lion Orange True Red Ola! Pink Purple Grape
RAL 9003 RAL 7035 RAL 085 90 20 RAL 1018 HEX #FF6F10 P 185 C HEX #FA3E90 P 268 C



Royal Blue Baby Blue Fresh Green Anthracite Grey Aluminium Silver Traffic Black
RAL 260 30 35 HEX #3CB9DD HEX #009439 RAL 7016 RAL 9017

Light Weight PLA



Pure White Light Grey Lion Orange Pure Red Persian Blue Dark Grey Traffic Black
RAL 9003 RAL 7035 RAL 050 60 80 RAL 3028 RAL 280 40 45 RAL 7005 RAL 9004

PLA Glitter**PLA MATT****PLA Pro****PLA Tough****PLA SILK****PLA Carbon****PLA Glow in the Dark****PLA Stone Age****PLA Thermoactive****PLA Nature****WOOD**

GreenyHT

Signal White Anthracite Grey Traffic Black Strawberry Red Light Blue

GreenyPro

Pure White RAL 9003 Light Grey RAL 7047 Dark Grey RAL 7005 Traffic Black RAL 9017 Pure Orange RAL 050 60 80 Pure Red RAL 3028 Ultramarine Blue RAL 280 40 35 Real Green RAL 160 60 58

rPLA

Signal White RAL 9003 Yellow Orange RAL 2000 Signal Red RAL 3001 Signal Blue RAL 5005 Leaf Green RAL 6002 Basalt Grey RAL 7012 Traffic Black RAL 9017

rPET-G

Porcelain White RAL 280 93 05 Signal Yellow RAL 1003 Yellow Orange RAL 2000 Carmine Red RAL 3002 Signal Blue RAL 5005 Traffic Green RAL 6024 Iron Grey RAL 7011 Traffic Black RAL 9017

Smart ABS

Polar White Coral Bahama Yellow Lion Orange Dragon Red Pacific Blue Forest Green Silver Star



Dark Grey Deep Black

ASA 275

Natural Polar White RAL 9003 Traffic Yellow RAL 1023 Lion Orange RAL 2004 Bloody Red RAL 3020 Brown Red RAL 3011 Navy Blue RAL 5002 Pacific Blue RAL 5015



Lime Green RAL 6018 Forest Green RAL 6024 Dark Grey RAL 7011 Silver Star Deep Black RAL 9017

ASA-X GF10

White Black



Carbon Black

PET-G Premium

Arctic White RAL 9016 Glassy Bahama Yellow RAL 1018 Signal Yellow RAL 1003 Beige RAL 1002 Lion Orange HEX #FF6F08 Bloody Red RAL 3020 Pink RAL 4010



Navy Blue RAL 5002 Pacific Blue RAL 5015 Iceland Blue RAL 200 60 40 Turquoise Blue HEX #94DE33 Lime Green RAL 160 50 60 Mint Green RAL 160 50 60 Olive Green RAL 6003 Bottle Green



Chocolate Brown RAL 8016 Pearl Gold RAL 1036 Silver Star RAL 9007 Anthracite Grey RAL 7016 Light Grey RAL 7035 Dark Grey RAL 7011 Deep Black RAL 9017 Transparent Yellow



Transparent Orange Transparent Red Transparent Blue Transparent Black Wizard Charcoal Wizard Green Wizard Indigo

HIPS-X

Gypsum White Bahama Yellow Dragon Red Deep Black

PCTG Premium

Arctic White Sulfur Yellow Pure Orange Traffic Red Navy Blue
RAL 9016 RAL 1018 RAL 2004 RAL 3020 RAL 5002
RAL 9007

PET-G Glitter

Aurora Gold Stardust Blue

PET-G Carbon

Carbon Black Carbon Grey Carbon Anthracite Carbon Purple Carbon Lime



Iron Grey Traffic Black Transparent Yellow Transparent Orange Transparent Red Transparent Blue Transparent Green
RAL 7011 RAL 9017

PET-G FR V0

Natural Black

PET-G Glow in the Dark

Yellow Green Blue

PCTG CF10

Black

PCTG GF10

Natural

S-Flex 85A/90A/98A

Polar White Bahama Yellow Lion Orange Bloody Red Pacific Blue Lime Green Deep Black
RAL 9003 RAL 1018 RAL 2004 RAL 3020 RAL 5015 RAL 6018 RAL 9017



Glow in the Dark

PET-G MATT

Polar White Lion Orange Bloody Red Navy Blue Desert Storm Sand Khaki Brown Uniform Olive Green
RAL 9003 RAL 2004 RAL 3020 RAL 5002 RAL 1019 RAL 1001 RAL 7012 RAL 6003



Dark Grey Deep Black
RAL 7011 RAL 9017

S-Flex Carbon

Black

AquaPrint

Natural

PC 275

Natural Traffic White Signal Yellow Lion Orange Traffic Red Navy Blue Lime Green Iron Grey

PET-G/PTFE

Signal White Traffic Red Light Blue Iron Grey Traffic Black



Traffic Black
RAL 9017



Transparent Yellow



Transparent Orange



Transparent Red



Transparent Blue

PA6
Low WarpNatural
Black
RAL 9017**PA6**
Low Warp GF30Natural
Black**PA6**
Low Warp CF15SNatural
Black**Industrial filaments color table****PA6 CF15****PA6 GK10****PA6 Neat NT****PA6 Neat BK****PA6 CS20 FR VO****PET-G HT100****PET-G FX120****PET CF15****ecoPET 9021 PP****PPS AM230****ABS GP450****ABS Medical** **ABS Kevlar** **ASA Kevlar****PC/ABS FR VO****PC/PTFE****Why Spectrum Filaments?****High-quality filament manufacturer****Extrusion know-how**

We pride ourselves on our expertise in extrusion techniques, ensuring our filaments meet the highest standards of quality and precision

European manufacturing

We maintain proximity to our customers, enabling us to offer efficient and responsive services with a commitment to European quality standards

High production capacity

Allows us to fulfill both small and large-scale orders, ensuring a reliable and consistent supply

Rigorous quality control system "Verify your spool"

We guarantee that each filament meets our strict quality standards, assuring customers of the reliability of our products

Private label services

Allowing to customize and brand our premium filaments with customer's labels, fostering collaboration and tailoring products to customer's unique needs

Technical support

Providing expert assistance to ensure a seamless and trouble-free 3D printing experience

Continuous development

We are at the forefront of innovation, consistently pioneering new materials and technologies to meet the evolving needs of the industry and our customers

**Wide Spectrum of materials****More than 65 filaments in portfolio**

Offering a diverse selection to cater to a wide range of 3D printing needs

Desktop easy-to-use

Making 3D printing accessible and user-friendly for hobbyists and enthusiasts

Industrial grade polymers

To meet the demand of professional and manufacturing applications, ensuring reliability and durability

High performance

For those seeking top-tier performance, pushing the boundaries of 3D printing capabilities and enabling remarkable results

0.25 - 20 kg spools

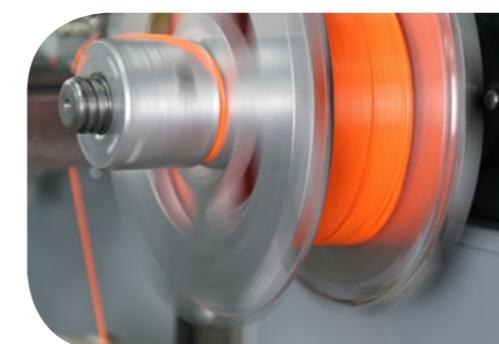
We accommodate both small-scale and large-scale 3D printing projects, offering flexibility in material quantities

Comprehensive range of properties & applications

Ensuring our filaments can be applied across a broad spectrum of projects, from functional prototypes to artistic creations

Unique aesthetic solutions

Beyond functionality, allowing users to achieve captivating and visually striking results in their 3D prints



Private label filaments

Private Label + Custom OEM gives you opportunity to create your own product line based only on your brand and material strategy, without the capital investment of expensive technological infrastructure. Deep knowledge of market trends, chemistry, sourcing and experience allows us to provide high quality filaments at compelling prices.

As a part of our Private Label Services, we aid our clients at every stage of product development through the selection of a polymer type, graphic design, type of packaging and technical support. The final product will be designed according to requirements. We provide flexible production MOQ and MOA to support the development of new product lines and material types.

With Spectrum Group Sp. z o.o., the possibilities for private labeling are comprehensive and flexible. Creating new or custom colors, developing non-standard diameter or providing custom spools are all available across the range of our filaments. We can rapidly adjust production to the specified range and weight.

We look forward to being your preferred partner in Private Label and Custom OEM development for high-quality prototype and industrial 3D printing filaments.

Follow the steps:



...and let us do the rest!



Available materials

Desktop

- PLA
- PLA Premium
- PLA Pastel
- PLA Light Weight
- PLA Pro
- PLA Tough
- PLA SILK
- PLA MATT
- PLA Glitter
- PLA Carbon
- PLA Stone
- PLA Nature
- WOOD
- ASA
- ASA Carbon
- ASA Glass Fiber
- ASA Kevlar
- HIPS
- ABS
- ABS Kevlar
- PET-G
- PET-G Carbon

- PCTG
- PCTG Carbon
- PCTG Glass Fiber
- PA6 Low Warp
- PA6 Low Warp Carbon
- PA6 Low Warp Glass
- Fiber
- TPU
- PC 275

Industrial

- PA6 Neat NT
- PA6 Neat BK
- PA6 GK10
- PA6 CF10
- PET-G HT100
- PET-G FX120
- PET CF15
- ABS GP450
- ABS Medical
- PP
- PC/ABS

Available spools



ABS (black)

Net filament weight:

- | | | |
|-----------|-----------|-----------|
| • 0.25 kg | • 0.25 kg | • 0.25 kg |
| • 0.50 kg | • 0.50 kg | • 0.50 kg |
| • 0.75 kg | • 0.75 kg | • 0.75 kg |
| • 1 kg | • 1 kg | • 1 kg |
| • 2 kg | • 2 kg | • 2 kg |
| • 2.3 kg | • 2.3 kg | • 2.3 kg |
| • 2.5 kg | • 2.5 kg | • 2.5 kg |
| • 4.5 kg | • 4.5 kg | • 3.5 kg |
| • 5 kg | • 5 kg | • 4.5 kg |
| • 8 kg | • 8 kg | |
| • 10 kg | • 10 kg | |
| • 12.5 kg | | |

PC (transparent)

Net filament weight:

- | | | |
|-----------|-----------|-----------|
| • 0.25 kg | • 0.25 kg | • 0.25 kg |
| • 0.50 kg | • 0.50 kg | • 0.50 kg |
| • 0.75 kg | • 0.75 kg | • 0.75 kg |
| • 1 kg | • 1 kg | • 1 kg |
| • 2 kg | • 2 kg | • 2 kg |
| • 2.3 kg | • 2.3 kg | • 2.3 kg |
| • 2.5 kg | • 2.5 kg | • 2.5 kg |
| • 4.5 kg | • 4.5 kg | • 3.5 kg |
| • 5 kg | • 5 kg | • 4.5 kg |
| • 8 kg | • 8 kg | |
| • 10 kg | • 10 kg | |
| • 12.5 kg | | |

Cardboard

- | | | |
|-----------|-----------|-----------|
| • 0.25 kg | • 0.25 kg | • 0.25 kg |
| • 0.50 kg | • 0.50 kg | • 0.50 kg |
| • 0.75 kg | • 0.75 kg | • 0.75 kg |
| • 1 kg | • 1 kg | • 1 kg |
| • 2 kg | • 2 kg | • 2 kg |
| • 2.3 kg | • 2.3 kg | • 2.3 kg |
| • 2.5 kg | • 2.5 kg | • 2.5 kg |
| • 4.5 kg | • 4.5 kg | • 3.5 kg |
| • 5 kg | • 5 kg | • 4.5 kg |
| • 8 kg | • 8 kg | |
| • 10 kg | • 10 kg | |
| • 12.5 kg | | |

Available spool packaging options

- Shrink film
- Vacuum bag
- Vacuum bag with ZIP lock
- Aluminium bag with ZIP lock

Available diameters

- 1.75 mm
- 2.85 mm

Available spool & box labeling options

- Different label sizes & design
- Single or full color print

Available spool & box labeling options

- Standard white/grey box with/without window
- According to customer's request possibility of visual identification on the box (fully individual box design)





SPECTRUM GROUP SP. Z O.O.

Parkowa 85
05-806 Pecice
Poland

CONTACT US

office@spectrumfilaments.com
+48 608 109 008

VISIT US AT:



@spectrumfilaments



/spectrumfilaments

www.SPECTRUMFILAMENTS.com

