ENG

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:

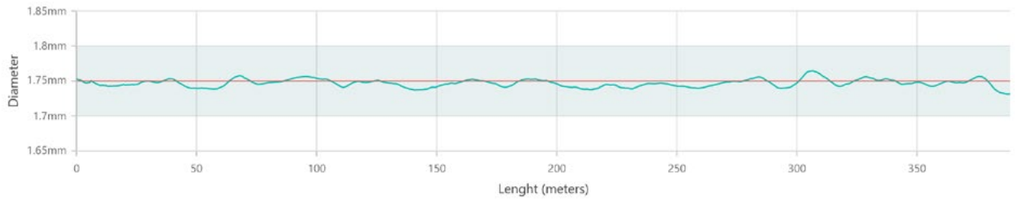
- The course of diameter on the entire length of the spool,
- Mean diameter,
- Ovality,
- Standard deviation.

During the production each 1 mm of filament is being continuously measured in 2 axes with ± 0.8 µm accuracy. To be sure that the measurement result is reliable we use certified laser meter devices.

How does the verification system work?

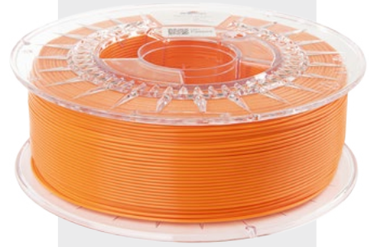
1. Get your Spectrum Filament spool
2. Each spool contains an individual spool ID with QR code
3. Scan QR code or visit verify.spectrumfilaments.com and enter your spool ID
4. Check ovality, mean diameter and standard deviation of your spool

Atribute	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 °C
Bed temp.	0 - 45 °C
Date of production	2022-02-19



Verify your spool

The most precise quality control system on the market



Scan for details

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SPOOL ID

Desktop filaments

Bio-based materials

PLA Premium	High quality PLA, biodegradable, user friendly, very wide range of colors
new **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)
new **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
new **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
new **PCTG CF10**	10% Carbon fiber reinforced, high stiffness and tensile strength, good impact and chemical resistance
new **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
new **PA6 Low Warp CF15S**	15% Carbon fiber reinforced, heat-stabilized, increased stiffness & tensile strength
new **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
new **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

Polycarbonate

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

Polyphenylene sulfide

new **PPS AM230**	High performance, excellent chemical resistance, high dielectric strength, exceptionally high mechanical properties	

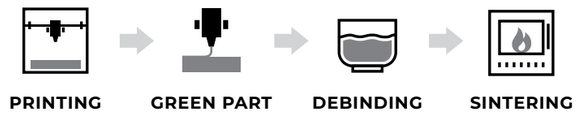
High performance (sintering)

Stainless steel

new **316L**	

Ceramics

Silicon Carbide
Silicon Nitride
Alumina
Zirconia
Porcelain



COOPERATION PARTNERS: LEHVOSS Group · Emery Oleochemicals · Sicreram

MATERIALS COMPARISONS

Desktop filaments comparison

	Noozle 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
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	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*
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	40-60	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	250-270	60-100	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 (1)
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 (1)
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 (1)

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

MATERIALS COMPARISONS

Industrial filaments comparison

	Noozle 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

	Noozle 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

COOPERATION PARTNERS: LEHVOSS Group · Emery Oleochemicals · Sicreram

Desktop filaments color table

PLA Premium

Forest Green RAL 6024 · Fluorescent Green RAL 6038 · Lime Green RAL 6018 · Fluorescent Yellow RAL 1026 · Bahama Yellow RAL 1018 · Lion Orange RAL 2004 · Carrot Orange RAL 2008 · Fluorescent Orange Custom color · Bloody Red RAL 3020 · Magenta RAL 4010

Navy Blue RAL 5002 · Pacific Blue RAL 5015 · Pastel Turquoise RAL 6027 · Military Khaki RAL 7008 · Golden Line RAL 1027 · Rust Copper RAL 8004 · Pearl Bronze Custom color · Chocolate Brown RAL 8016 · Dragon Red RAL 3031 · Pink Panther RAL 4003

Caribbean Blue Custom color · Blue Lagoon RAL 5018 · Polar White RAL 9003 · Arctic White Custom color · Light Grey RAL 7035 · Silver Star RAL 9007 · Pearl Gold Custom color · Dark Grey RAL 7011 · Deep Black RAL 9017 · Lavender Violett RAL 4005

Anthracite Grey RAL 7016 · Ivory Beige RAL 1015 · Natural Custom color · Translucent Custom color · Wizard Charcoal Custom color · Wizard Green Custom color · Wizard Indigo Custom color

PLA Pro

Forest Green RAL 6024 · Lime Green RAL 6018 · Bahama Yellow RAL 1018 · Lion Orange RAL 2004 · Carrot Orange RAL 2008 · Rust Copper RAL 8004 · Bloody Red RAL 3020 · Dragon Red RAL 3031 · Magenta RAL 4010 · Pink Panther RAL 4003

Navy Blue RAL 5002 · Pacific Blue RAL 5015 · Pastel Turquoise RAL 6027 · Blue Lagoon RAL 5018 · Military Khaki RAL 7008 · Pearl Bronze Custom color · Chocolate Brown RAL 8016 · Arctic White Custom color · Polar White RAL 9003 · Lavender Violett RAL 4005

Ivory Beige RAL 1015 · Coral Custom color · Silver Star RAL 9007 · Pearl Gold Custom color · Dark Grey RAL 7011 · Deep Black RAL 9017

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

PLA Tough

Polar White RAL 9003 · Natural Custom color · Dark Grey RAL 7011 · Deep Black RAL 9017

PLA Stone Age

Stone Age Light Custom color · Stone Age Dark Custom color

PLA Thermoactive

Thermoactive Red Custom color

PLA Glitter

Silver Metallic Custom color · Clear Gold Custom color · Aztec Gold Custom color · Aurora Gold Custom color · Volcano Grey Custom color · Sparkle Red Custom color · Emerald Green Custom color · Stardust Blue Custom color

PLA MATT

Polar White RAL 9003 · Lime Green RAL 6018 · Bahama Yellow RAL 1018 · Lion Orange RAL 2004 · Bloody Red RAL 3020 · Dark Grey RAL 7011 · Deep Black RAL 9017 · Navy Blue RAL 5002

PLA Glow in the Dark

Yellow Green Custom color · Blue Custom color

PLA Carbon

Carbon Custom color

WOOD

Natural Custom color · Oak Custom color · Ebony Black Custom color

PLA SILK

Unmellow Yellow Custom color · Glorious Gold Custom color · Cinnamon Bronze Custom color · Spicy Copper Custom color · Rose Gold Custom color · Ruby Red Custom color · Taffy Pink Custom color · Amethyst Violet Custom color · Indigo Blue Custom color · Candy Blue Custom color

Pearl White Custom color · Aluminum Silver Custom color · Sterling Silver Custom color · Sapphire Blue Custom color · Tropical Green Custom color · Apple Green Custom color

GreenyHT

Signal White Custom color · Anthracite Grey Custom color · Traffic Black Custom color · Strawberry Red Custom color · Light Blue Custom color

ASA 275

Traffic Yellow RAL 1023 · Lion Orange RAL 2004 · Bloody Red RAL 3020 · Navy Blue RAL 5002 · Pacific Blue RAL 5015 · Lime Green RAL 6018 · Forest Green RAL 6024

Polar White RAL 9003 · Natural Custom color · Dark Grey RAL 7011 · Silver Star Custom color · Deep Black RAL 9017

ASA-X CF10

Black Custom color

PET-G Premium

Arctic White RAL 9016 · Glassy Custom color · Bahama Yellow RAL 1018 · Signal Yellow RAL 1003 · Beige RAL 1002 · Lion Orange RAL 2004 · Bloody Red RAL 3020 · Pink RAL 4003 · Navy Blue RAL 5002 · Pacific Blue RAL 5015

Iceland Blue Custom color · Turquoise Blue RAL 5018 · Lime Green RAL 6018 · Mint Green RAL 6029 · Olive Green RAL 6003 · Bottle Green Custom color · 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 Custom color · Transparent Orange Custom color · Transparent Red Custom color · Transparent Blue Custom color · Transparent Black Custom color · Wizard Charcoal Custom color · Wizard Green Custom color

Wizard Indigo Custom color

Recycled PET-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

PCTG Premium

Arctic White RAL 9016 · Sulfur Yellow RAL 1018 · Pure Orange RAL 2004 · Traffic Red RAL 3020 · Navy Blue RAL 5002 · Sky Blue RAL 5015 · Light Green RAL 6018 · Silver Steel RAL 9007 · Iron Grey RAL 7011 · Traffic Black RAL 9017

Transparent Yellow Custom color · Transparent Orange Custom color · Transparent Red Custom color · Transparent Blue Custom color · Transparent Green Custom color

PET-G MATT

Polar White RAL 9003 · Lion Orange RAL 2004 · Bloody Red RAL 3020 · Navy Blue RAL 5002 · Desert Storm RAL 1019 · Sand Khaki RAL 1001 · Brown Uniform RAL 7012 · Olive Green RAL 6003 · Dark Grey RAL 7011 · Deep Black RAL 9017

PET-G FR V0

Black · Natural

PET-G Glow in the Dark

Yellow Green Custom color · Blue Custom color

PET-G Glitter

Aurora Gold Custom color · Stardust Blue Custom color

PET-G Carbon

Black

PET-G/PTFE

Signal White Custom color · Traffic Red Custom color · Light Blue Custom color · Iron Grey Custom color · Traffic Black Custom color

PCTG CF10

Black

PCTG GF10

Natural

S-Flex 85A

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

S-Flex 90A

Polar White RAL 9003 · Bahama Yellow RAL 1018 · Lion Orange RAL 2004 · Bloody Red RAL 3020 · Pacific Blue RAL 5015 · Lime Green RAL 6018 · Deep Black RAL 9017 · Glow in the Dark Custom color

S-Flex 98A

Polar White RAL 9003 · Bahama Yellow RAL 1018 · Lion Orange RAL 2004 · Bloody Red RAL 3020 · Pacific Blue RAL 5015 · Lime Green RAL 6018 · Deep Black RAL 9017 · Glow in the Dark Custom color

Smart ABS

Polar White Custom color · Coral Custom color · Bahama Yellow Custom color · Lion Orange Custom color · Dragon Red Custom color · Pacific Blue Custom color · Forest Green Custom color · Silver Star Custom color · Dark Grey Custom color · Deep Black Custom color

HIPS-X

Gypsum White Custom color · Bahama Yellow Custom color · Dragon Red Custom color · Deep Black Custom color

PA6 Low Warp

Natural

PA6 Low Warp CF15S

Black

PA6 Low Warp GF30

Natural Custom color · Black Custom color

Industrial filaments color table

PA6 Neat NT

Natural

PA6 Neat BK

Black

PA6 CF15

Black

PA6 GK10

Natural

PA6 CS20 FR V0

Black

PET CF15

Black

PET-G HT100

Pure White Custom color · Clear Custom color · Silver Steel Custom color · Iron Grey Custom color · Obsidian Black Custom color · Traffic Red Custom color · Transparent Blue Custom color

ASA Kevlar

Natural · Black

ABS GP450

Pure White Custom color · Natural Custom color · Silver Custom color · Obsidian Black Custom color · Traffic Red Custom color · Dark Blue Custom color · Pure Green Custom color

ABS Medical

Natural

ABS Kevlar

Black

PC/PTFE

Natural

PP

Natural

PPS AM230

Natural

ecoPET 9021

Black

PET-G FX120

Natural · Dark Grey · Obsidian Black

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

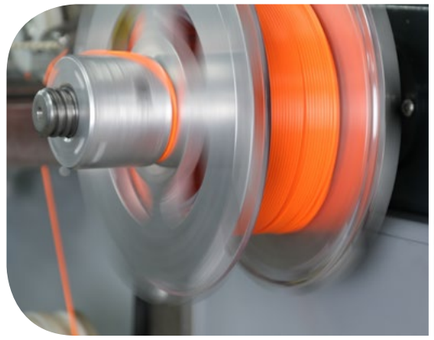
Why Spectrum Filaments?

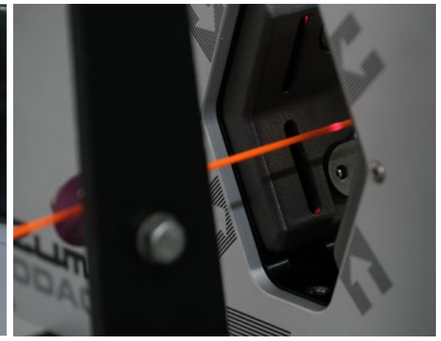
Top quality filament manufacturer

- Extrusion know-how
- High production capacity
- Rigorous quality control system “Verify your spool”
- Private label services
- Technical support

Wide Spectrum of materials

- More than 50 filaments in portfolio
- Desktop easy-to-use
- Industrial grade polymers
- High performance ceramics
- 0.25 - 12.5 kg spools
- Comprehensive range of properties & applications
- Unique aesthetic solutions





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