

# 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.



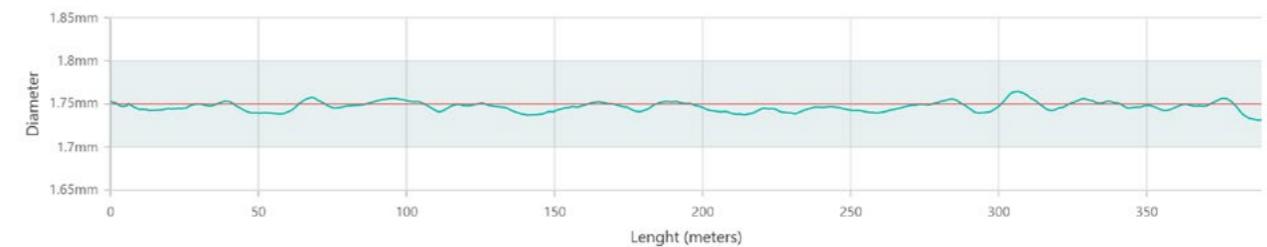
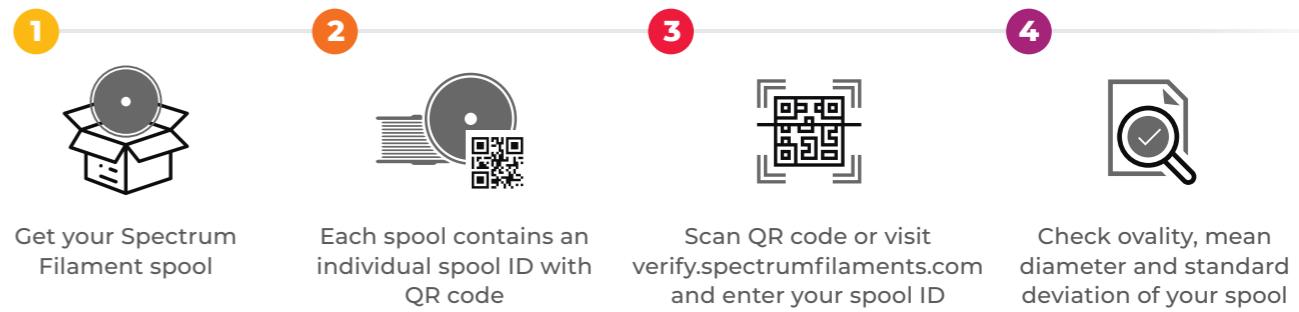
Filament for 3D printers is manufactured by the method of free extrusion. This is one of the most difficult processing techniques by extrusion, due to the particularly large impact of process parameters on product dimensions and material homogenization.

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?



## Verify your spool

The most precise quality control system on the market









## 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



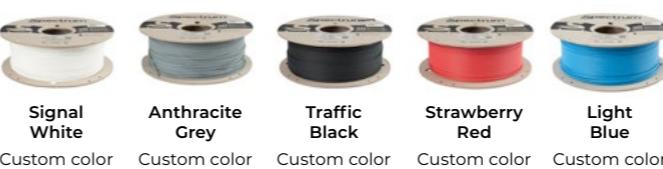
### WOOD



### PLA SILK



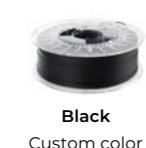
### GreenyHT

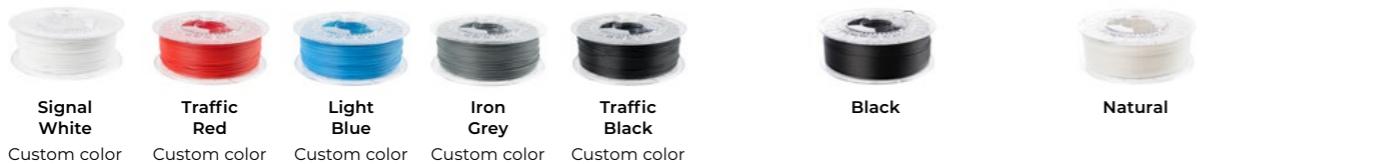


### ASA 275



### ASA-X CF10



**PET-G Premium****S-Flex 85A****S-Flex 90A****S-Flex 98A****Smart ABS****HIPS-X****Industrial filaments color table****PCTG Premium****PET-G HT100****PET-G MATT****PET-G FR VO****PET-G/PTFE****ABS GP450**

# Filament sets for start

new


## 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 Pacific 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 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  
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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