

# FILAMENTS

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## Which filament is right for your needs?

### PLA

The easiest material to print with. Derived from corn starches it is cheap and eco friendly too. We always recommend starting with PLA and using it wherever possible. It is our most popular material but if you require more mechanical strength or thermal resistance you will need to extend your filament palette.

### CPE/PET

CPE/PET is recommended as THE intermediate printing filament. It's versatility with great mechanical and thermal performance. Natural PET has the highest level of optical clarity in the plastics world and is FDA approved food safe. Chemical resistant, tough and demonstrate good dimensional stability. It is a preferred choice for both functional prototypes and mechanical parts.

### CPE+

While both CPE and CPE+ provide similar performance characteristics, CPE+ provides the added benefit of higher temperature resistance and increased impact strength.

### ABS

Used by an array of industries worldwide, ABS (acrylonitrile butadiene styrene) is known for its exceptional mechanical properties. Specifically formulated to minimize warping and ensure consistent interlayer adhesion, our ABS allows the creation of functional prototypes and complex end-use parts with ease.

### NYLON

Used by many manufacturers worldwide, Nylon (polyamide) is well-known for its impressive durability, high strength-to-weight ratio, flexibility, low friction, and corrosion resistance. With its ability to withstand significant mechanical stress, Nylon is a great choice for 3D printing tools, functional prototypes, and end-use parts

### PC

With Ultimaker PC (polycarbonate) filament, you can print strong and tough parts that retain dimensional stability when subjected to temperatures as high as 110 °C. Our PC is a perfect filament for printing molds, tools, functional prototypes and parts for short-run manufacturing.

### TPU-95A

Highly versatile for industrial applications, TPU 95A (thermoplastic polyurethane) filament is the go-to choice for a wide array of manufacturing projects that demand the qualities of both rubber and plastic. Designed for 3D printing consistency, TPU 95A is a semi-flexible and chemical resistant filament with strong layer bonding. In addition, it is easier and faster to print than other TPU filaments.

### PRIMALLOY

A high performance polyester based thermoplastic elastomer (TPE). A soft rubber material with outstanding heat, oil and abrasion resistance and mechanical strength. Exceptional diameter consistency providing the best possible homogeneous wire structure for smooth operation.

### PRO1

Innofil3D polymer chemists have developed PRO1 as a high-speed engineering thermoplastic that prints as easy as PLA at speeds previously considered unusable and yet it retains far better mechanical properties that exceed printed ABS objects, something that the most demanding users have always had to make a compromise on prior to PRO1.



Ultimaker-PLA-black



Ultimaker-PLA-blue



Ultimaker-PLA-green



Ultimaker-PLA-magenta



Ultimaker-PLA-orange



Ultimaker-PLA-pearl-white



Ultimaker-PLA-red



Ultimaker-PLA-silver-metallic



Ultimaker-PLA-transparent



Ultimaker-PLA-white



Ultimaker-PLA-yellow



Ultimaker-ABS-black



Ultimaker-ABS-blue



Ultimaker-ABS-gray



Ultimaker-ABS-green



Ultimaker-ABS-orange



Ultimaker-ABS-pearl-gold



Ultimaker-ABS-red



Ultimaker-ABS-silver



Ultimaker-ABS-white



Ultimaker-ABS-yellow



Ultimaker-CPE-black



Ultimaker-CPE-blue



Ultimaker-CPE-dark-gray



Ultimaker-CPE-green



Ultimaker-CPE-light-gray



Ultimaker-CPE-red



Ultimaker-CPE-transparent



Ultimaker-CPE-white



Ultimaker-CPE-yellow



Ultimaker-CPE+ Black Filament



Ultimaker-CPE+ Transparent Filament



Ultimaker-CPE+ White Filament



Ultimaker-PC- Black Filament



Ultimaker-PC- Transparent Filament



Ultimaker-PC- White Filament



Ultimaker-Nylon-Transparent



Ultimaker-TPU-95A-White

## verbatim

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Verbatim Primalloy - White Filament

# innofil



INNOFIL ABS RED



INNOFIL ABS BLACK



INNOFIL PLA BRONZE



INNOFIL PLA SILVER



INNOFIL PLA MAGENTA



INNOFIL PLA PEARL WHITE



INNOFIL PLA ORANGE



INNOFIL PLA GREEN



INNOFIL PLA YELLOW



INNOFIL PLA BLUE



INNOFIL PLA RED



INNOFIL PLA WHITE



INNOFIL PLA BLACK



INNOFIL PLA NATURAL



INNOPET WHITE



INNOPET RED



INNOPET BLUE



INNOPET YELLOW



INNOPET GREEN



INNOPET ORANGE



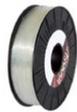
INNOPET PEARL WHITE



INNOPET GOLD



INNOPET BLACK



INNOPET NATURAL



INNOFIL PRO1 NATURAL WHITE



INNOFIL PRO1 SILVER