FORWARD AM
Innovating Additive Manufacturing

BASF
We create chemistry

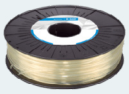
Ultrafuse® Filaments

Product Range NA

Our experts for Fused Filament Fabrication (FFF) provide you with an extensive range of materials offering a variety of beneficial material properties such as ease of print, dimensional stability, durability, and flexibility. Whether it's standard filaments, filaments for high temperatures and engineering or filaments for temporary support material – our Ultrafuse® product range offers material solutions for all open FFF printing platforms.

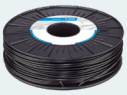
Standard

Ultrafuse® PLA



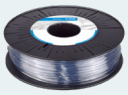
- Biodegradable polymer
- Low melting point
- Easy to print
- Wide range of colors

Ultrafuse® ABS



- Good heat resistance
- Easy to print

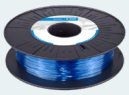
Ultrafuse® PET



- Premium, food approved raw material
- Good layer adhesion
- Easy to handle

Sustainable

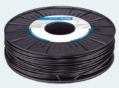
Ultrafuse® rPET



- Made from post-industrial recycled PETG
- Environmentally friendly
- Good mechanical characteristics

Engineering

Ultrafuse® PC/ABS FR

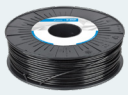


- Inherent flame retardancy (according to UL 94 V-0 for 1.5 & 3.0 mm thickness)
- Outstanding aesthetics
- Strong layer adhesion
- High print speeds possible
- Passed glow wire test (with 725°C for 1.5mm thickness and 960°C for 3.0mm thickness)

Ultrafuse® PP

- Low density
- Chemical resistant
- Good resistance to fatigue
- High elasticity
- Good insulation

Ultrafuse®ABS Fusion+

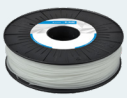


- Chemical resistant
- Good heat resistance
- Low warping
- Adheres to water-soluble support
- Tough

Ultrafuse® PLA PRO1

- Can be tuned towards tremendous speed and excellent surface finish
- Truly consistent filament

Ultrafuse® PA



- Good fatigue resistance
- Low melting point, printable for many FFF printers
- Good wear resistance/ lubricity

Ultrafuse® PPSU

- Inherent flame retardancy
- Short-term temperature resistance up to 220 °C
- Resistance to long-term service temperatures up to 180 °C
- High dimensional stability
- Creep strength at high temperatures

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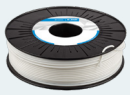
Flexible

Ultrafuse® TPU 85A

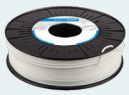
- Extremely flexible yet still tough
- Good chemical resistance
- Abrasion resistant
- High hydrolysis stability

Ultrafuse® TPU 95A



- Perfect for fast printing
- High abrasion resistance
- Easy to handle
- Good resistance to oils & com mon industrially used chemicals

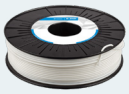
Ultrafuse® TPU64D



- High resistance to oils, greases, oxygen and ozone
- High wear and abrasion resistance
- High impact resistance
- Compatible with water soluble support

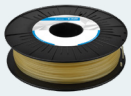
Support

Ultrafuse® HiPS



- Good impact resistance
- Good dimensional stability Easy post-processing

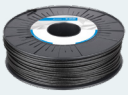
Ultrafuse® BVOH



- Dissolves easily in water
- Great compatibility to PLA, PLA PRO1, ABS Fusion+, PA, PAHT CF15 and TPUs

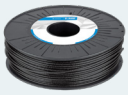
Reinforced

Ultrafuse® PET CF15



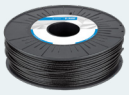
- High dimensional stability
- Heat resistant up to 74°C
- Low abrasion
- Compatible with soluble support
- For strong and stiff parts
- Excellent surface finish

Ultrafuse® PC GF30



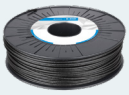
- UL94 V0 flame retardancy
- Resistance to UV light exposure
- Good temperature resistance
- High stiffness and strength
- Good heat deflection temperature
- High dimensional stability
- Very low moisture absorption

Ultrafuse® PP GF30



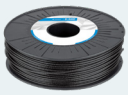
- Extremely high stiffness
- High heat resistance
- Chemical resistant

Ultrafuse® PA6 GF30



- Very high stiffness and strength
- Good chemical resistance
- Resistance to UV light exposure
- High wear resistance
- Excellent layer adhesion
- Works with BVOH

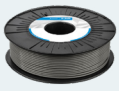
Ultrafuse® PAHT CF15



- Higher chemical resistance than most PA grades
- For strong and stiff parts
- High dimensional stability
- Easy to process
- Low moisture absorption

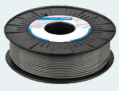
Metal

Ultrafuse® 316L



- For all open source FFF printers
- Austenitic stainless steel
- Excellent corrosion resistance

Ultrafuse® 17–4 PH



- For all open source FFF printers
- Cost advantages
- Enables highest strength when fully hardened
- Good corrosion resistance

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