



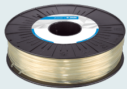
Ultrafuse® Filaments

Product Range

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 its standard filaments, filaments for high temperatures and engineering or filaments for temporary support material – our product range Ultrafuse® offers applications for both Bowden and direct-driven extrusion systems.

Standard

Ultrafuse® PLA



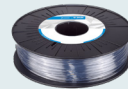
- Biodegradable polymer
- Low melting point
- Easy to print
- Wide range of colors

Ultrafuse® ABS



- Direct printing on heated glass or print bed surfaces
- High heat resistance
- Easy to print

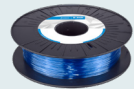
Ultrafuse® PET



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

Sustainable

Ultrafuse® rPET



- Made from recycled PET
- Environmentally friendly
- Good mechanical characteristics

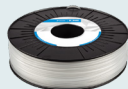
Engineering

Ultrafuse® PLA PRO1



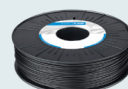
- Can be tuned towards tremendous speed and excellent surface finish
- Truly consistent filament

Ultrafuse® PP



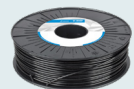
- Low density
- Chemical resistance
- Resistance to fatigue
- Elasticity and toughness
- Insulation

Ultrafuse® ASA



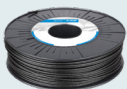
- High outdoor weatherability
- Chemical resistance
- Heat resistance
- High gloss
- Good anti-static properties
- Tough and rigid

Ultrafuse® ABS Fusion+



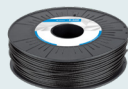
- Chemical resistance
- High heat resistance
- Low warping
- Adheres to water-soluble support
- Tough

Ultrafuse® PET CF15



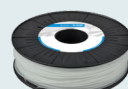
- High dimensional stability
- Heat resistance up to 74°C
- Low abrasion
- Compatible with soluble support
- Strong and stiff parts
- Excellent surface finish

Ultrafuse® PP GF30



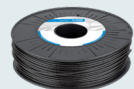
- Extremely high stiffness
- High heat resistance
- Chemical resistance

Ultrafuse® PA



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

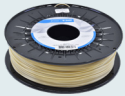
Ultrafuse® PAHT CF15



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



Ultrafuse® PEI



- Short-term temperature resistance up to 186°C
- Excellent dimensional stability
- Inherent flame retardancy with low smoke evolution
- Long-term hydrolytic stability

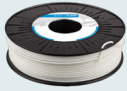
Ultrafuse® PPSU



- Inherently flame retardant
- 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

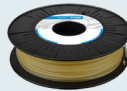
Support

Ultrafuse® HiPS



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

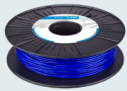
Ultrafuse® BVOH



- Easily dissolves in water
- Great compatibility to PLA, PLA PRO1, ABS Fusion+, PA and PAHT CF15

Flexible

Ultrafuse® TPC 45D



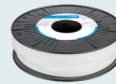
- Excellent adhesion in Z-direction

Ultrafuse® TPU (85A, 95A, 64D)



- Extremely flexible yet still tough
- Good chemical resistance
- Abrasion-resistance

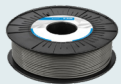
Ultrafuse® TPS 90A



- Outstanding impact strength even at temperatures below freezing point
- Excellent aesthetics and soft-touch haptics
- Printable on Bowden tube printer

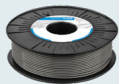
Metal

Ultrafuse® 316L



- Cost advantage for small and medium-sized components
- Full stainless steel parts with a high degree of complexity

Ultrafuse® 17-4 PH



- High mechanical strength and hardness
- Good corrosion resistance
- Fully hardened enables highest strength