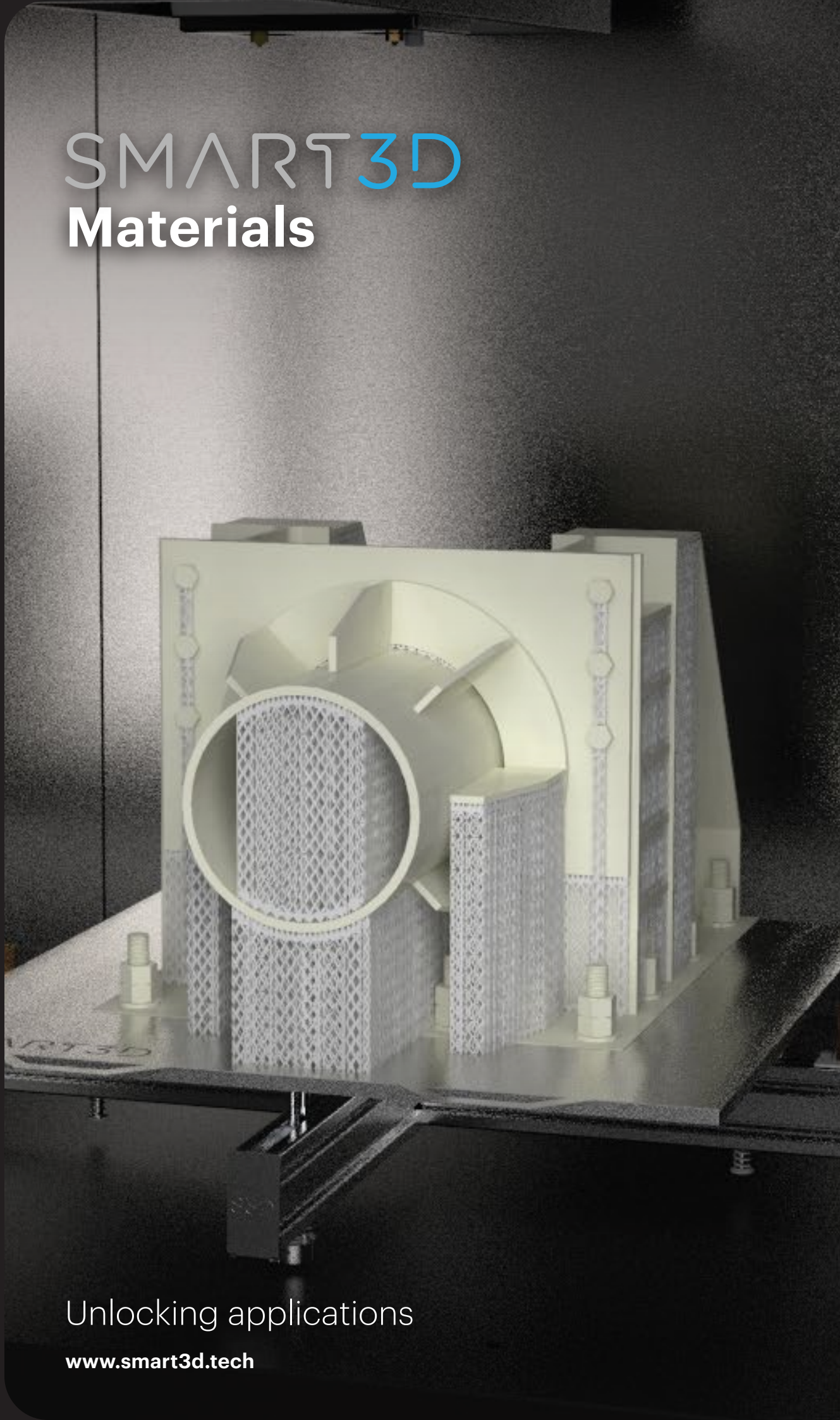


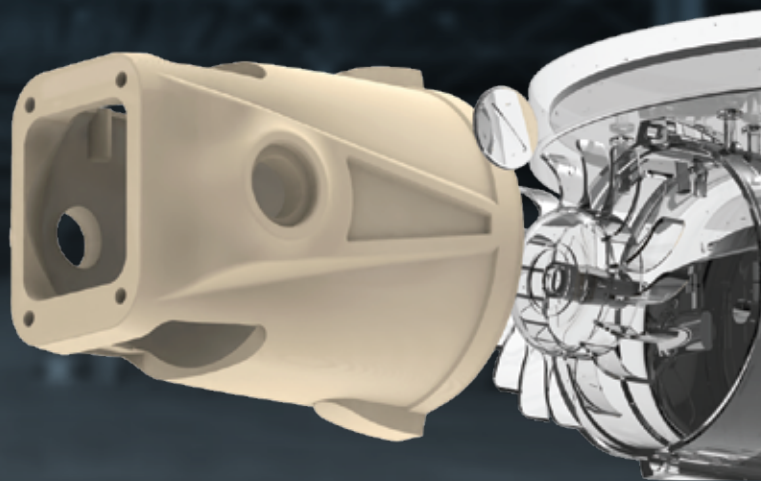
SMART3D
Materials

Unlocking applications

www.smart3d.tech

High Performance Filaments

Smart3D Materials are developed to meet the mechanical and chemical performance required in each application. Durable, lightweight, flame retardant, strong, stiff or flexible materials that can withstand different conditions.



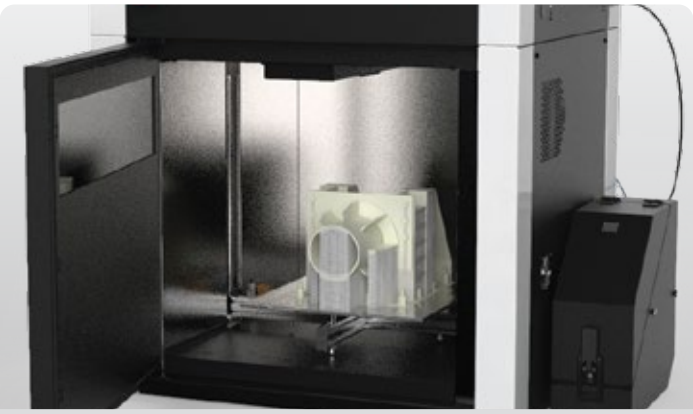
Widest Material Range

The Smart3D portfolio offers the broadest variety of engineering materials on the market to enable diverse applications in multiple industries. This provides our customers with the flexibility they need to produce parts for different uses.

State-of-the-art Production

With specialize machinery and certified processes, our manufacturing lines ensures dimensional accuracy and filament consistency. Every step in the process is controlled to guarantee quality and low moisture filament.

A comprehensive solution where materials perform



Heated Print Chambers

Materials express their full mechanical and chemical strengths when the chamber they are printed in uniformly raises to their glass transition temperatures (Tg).

Hybrid Drying Technology™

Only filament properly dried in a process not involving excessive heat can ensure material properties are not damaged in the extrusion process.

Protected Feeding

Filament must be protected from ambient moisture or dust while printing for optimal performance.

Top Quality Materials

The material is ultimately the key application enabler, for which quality and consistency must be assured.

ABS
Acrylonitrile Butadiene Styrene

- Impact resistance and toughness
- UV, heat and abrasion resistance
- Shiny, smooth surface when printed with heated chamber

Available colors: Black, Natural, White, Red, Blue

ASA
Acrylonitrile Styrene Acrylate

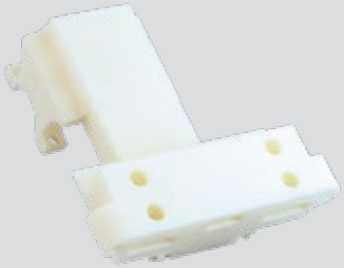
- UV resistance, suitable for outdoor use
- Good mechanical strength

Available colors: Black, Natural, White, Red, Blue

BVOH
Butenediol Vinyl Alcohol

- Water soluble support material
- Compatible with ABS, ASA, PA, PC-ABS, PET-g and others
- High solubility

Available colors: Natural



PA 6/66
Polyamide 6/66

- Strong, shatterproof parts
- High abrasive resistance
- Low friction coefficient

Available colors: Natural

PA12
Polyamide 12

- Good elongation at break, high tensile and impact strength
- High fatigue endurance and low friction coeficient
- Chemical, UV and heat resistance

Available colors: Natural

PAHT
Polyamide 6/66

- High temperature resistance
- Very high stiffness and ductility

Available colors: Black

PAHT CF
Polyamide 6/66 – Carbon Fiber

- Superior mechanical properties and dimensional stability
- High heat and chemical resistance
- Properties comparable to injection molding

Available colors: Black

PC-ABS vO
Polycarbonate - Acrylonitrile Butadiene Styrene

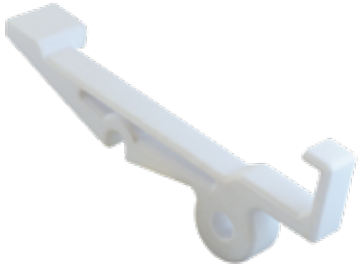
- Heat resistant and flame retardant
- High impact strength
- Good resolution and surface finish

Available colors: Black, Natural, White

PEEK
Polyether Ether Ketone

- Excellent mechanical and chemical resistance at high heat
- Resistant to thermal degradation, organic and aqueous environments
- Good polymer alternative to aluminum and steel

Available colors: Natural



PET-g ESD
Polyethylene Terephthalate-Glycol

- ESD and food safe
- Good strength, ductility and chemical resistance
- Perfect for electronic jigs and fixtures

Available colors: Black, Natural, White

PP CF
Polypropylene – Carbon Fiber

- Excellent chemical resistance
- High strength and stiffness

Available colors: Black

PVA
Polyvinyl Alcohol

- Water soluble support material
- Compatible with PLA

Available colors: Natural

Tough PLA
Polylactic Acid

- High tensile strength and impact resistance
- Low shrinkage
- Easy to print

Available colors: Black, Natural, White, Red, Blue

TPE 60A
Thermoplastic Elastomer

- High elastic recovery
- Resistance to high and low temperatures
- Ideal for dynamic profiles and seals

Available colors: Black

TPU 98
Thermoplastic Polyurethane

- Semiflexible
- High impact and abrasion resistance
- Strong, shatter-resistant parts

Available colors: Black