

## Onyx

Onyx is a micro carbon fibre filled nylon that yields accurate parts with near flawless surface finish. Few materials have the versatility of Onyx; it offers high strength, toughness, and chemical resistance when printed alone, and can be reinforced with Continuous Fibers to yield aluminium-strength parts.

### Benefits

Ideal for structural brackets, end-of-arm tooling, jigs, fixtures, and load-bearing components, Onyx + CCF delivers performance suitable for replacing light metal parts in demanding aerospace and industrial environments.



### Physical & Mechanical Properties

Property	Typical Value
Tg (°C)	47
Melt Temp (°C)	220
Density (kg/m <sup>3</sup> )	1200
Yield strength (MPa)	50-600 (Depending on CF%)
Bio-Compatibility	No

	Good	Average	Poor
Chemical Resistance	■		
UV Stability	■		
Reusability			■
Impact Resistance	■		
Fire Performance			■

To discuss your next additive manufacturing challenge, call our experts on **03330 150 563**



### Typical Applications

- Low-volume production and highly-customised parts
- Fixtures
- End-of-arm tools
- Drones
- End-use parts

### Industries

- Aerospace
- Defence
- Space
- Rail
- Marine
- Nuclear
- Automotive

### Colour Options

- Black
- White
- Blue
- Red
- Yellow
- Nectarine
- Ivory
- Green
- Grey
- Natural

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