



Ultrasint® PA11 Black CF

Bio-Derived, Carbon-Fiber Reinforced PA11 Powder for Highest Strength and Lightweight Design

Ultrasint® PA11 black CF is a bio-derived powder material for advanced applications where strength and rigidity are crucial. The material is carbon-fiber reinforced, delivering optimal mechanical performance of printed components. Its high rigidity is especially suited to lightweight designs through reducing wall thickness without compromising a part's functionality. This makes the material a perfect choice for individualized and low-run motorsport parts series.

Benefits at a Glance

- Processing on any PBF equipment
- Carbon-fiber reinforcement
- Exceptionally high rigidity
- High strength-to-weight ratio
- Color: Black

Example Applications

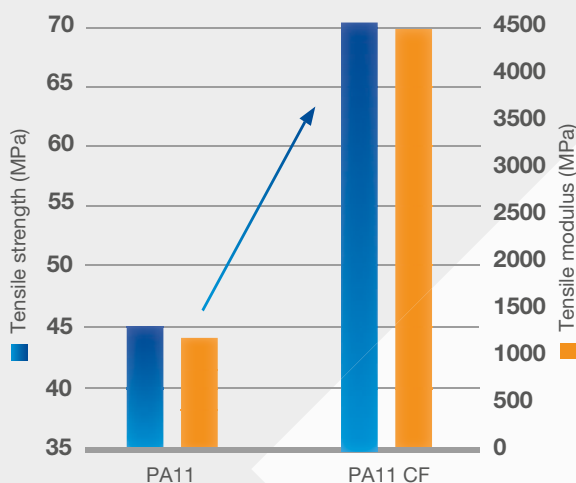
- Individual motorsport parts
- Lightweight structures
- Aerodynamic components
- Metal replacement parts
- Partly electrically conductive parts
- Wind tunnel models

Material Properties

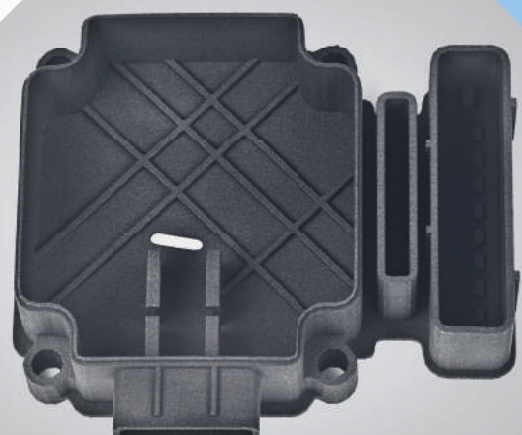
Tensile Strength	71 MPa
Young's Modulus	4500 MPa
Elongation at Break	11 %
Charpy Impact unnotched	63 kJ/m²
HDT B (0.45 MPa, dry)	189

Key Features

Ultrasint® PA11 Black CF offers exceptionally high rigidity for the highest performance requirements and lightweight designs.



- One of the strongest and most rigid materials in the industry
- Well-balanced mechanical property profile, maintaining high ductility and impact performance



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