

For Your Ultimate Requirements: Unmatched High-Performance Thermoplastic Compounds for Drones

You want to improve your drone performance? You want to save costs and gain more value? We are your material partner to achieve the utmost. Benefit from our decades of experience with structural thermoplastic materials. Profit from our knowledge with numerous approved applications.

Our materials offer unmatched properties:

- Highest strength up to 520MPa
- Highest stiffness more than 50Gpa
- Combined with an impact strength of 90kJ/m²
- · Low weight
- Excellent fatigue strength
- Insensitive to humidity
- Temperature range 40°C up to more than 240°C

This performance is a result of our leading material technology based on high-performance carbon fibers (XCF technology), long chain polyamides and a unique compounding process.

These properties enable:

- Higher centrifugal forces
- Increased flight efficiency
- Lower energy consumption
- Better flight performance

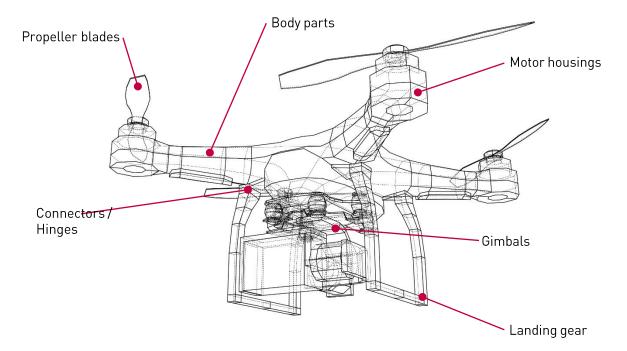






LUVOCOM® XCF -Stronger, lighter and lower system costs compared to light metals and CFRP solutions





We offer comprehensive material solutions for drones. From all-wing aircraft to octacopters. From pure video use to heavy transport. Our tailor-made materials have already proven themselves in numerous components. In addition to the technical aspects, costs and sustainability play a particularly important role. Here too we offer advantages, especially compared to light metals and CFRP.

Application example: Propeller blade

Material: LUVOCOM 20/XCF/35/BK - high-performance carbon fiber reinforced PPA



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