



# Aerospace Composites



## Reliable composite structures with repeatable results.

At Trelleborg Sealing Solutions, we're experts in innovating and producing high-performance composite parts. Our solutions bring additive manufacturing technology to advanced composites, creating customized parts for critical applications in demanding environments around the world.

As the world leader of composite fiber placement, Trelleborg Sealing Solutions engineers work with its customers to design, develop, prototype and produce composite solutions for aerospace applications. The focus of these programs has been to replace existing aluminum structures with composite parts and achieve comparable durability, outstanding strength-to-weight ratio and reduced manufacturing costs.

### Application Examples:

- Drive shafts
- Cargo floor panels
- Tail booms
- Fixed wing fuselages
- Horizontal stabilizers

### Features of Thermoplastic Composites:

- Melt processable
- No toxicity/hazardous chemical issues
- Recyclable
- Exceptional fatigue resistance
- Extreme toughness/damage tolerance
- Superior solvent and chemical resistance
- No refrigeration or out-time considerations
- Excellent FST (Fire, Smoke, Toxicity) stability
- Hydrolytic stability
- Stable Tg under hot/wet conditions
- Low water absorption
- Low coefficient of friction

Trelleborg is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative solutions accelerate performance for customers in a sustainable way.

Trelleborg Sealing Solutions is a leading developer, manufacturer and supplier of precision seals, bearings and custom-molded polymer components. It focuses on meeting the most demanding needs of aerospace, automotive and general industrial customers with innovative solutions.

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