



Thermoplastic Composites



Robust strength-to-weight solutions for the most demanding environments.

Trelleborg Sealing Solutions is the expert in innovating and producing high-performance thermoplastic composite parts. Our additive manufacturing process forms complex structures without the need for secondary processing, such as curing in an autoclave.

Compared with traditional metals, plastics and thermoset composites, thermoplastic composites offer superior strength-to-weight capabilities and possess better fatigue properties.

As an additive layering process, the use of thermoplastic composites can significantly reduce time and expense during design, prototyping, and manufacturing. Thermoplastics are recyclable and repairable, which cuts down on waste, and their ability to bond to differing materials enables the creation of hybrid structures.

Our manufacturing and process development services deliver comprehensive support to innovators in a multitude of markets. From design assistance, feasibility and prototyping to clinical builds and commercial products, our business model, quality system, and facility layout are all aimed for maximum flexibility in meeting the unique requirements of our customers.

Application Examples:

- Aerospace
- Automotive
- Construction
- Healthcare & Medical
- Industrial
- Oil & Gas
- Research & Development

Features and Benefits:

- In-situ manufacturing (out of autoclave)
- Weight reduction
- Decreased life cycle cost
- Durability
- Damage tolerance
- Fatigue resistance
- Environmental resistance (corrosion and solvents)
- Recyclable and repairable
- Hybrid-capable

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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