



Automotive Composites



TRELLEBORG

Lighter vehicles from the inside out.

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.

Using automated fiber placement and thermoplastic composites, Trelleborg Sealing Solutions creates custom automotive parts without the need for post processing. Beyond composite components being lightweight and offering the highest strength-to-weight ratio available, they offer additional benefits to:

- OEMs – Continuous/high throughput manufacturing with new features and material options
- Consumers – Improved parts result in higher performance and greater fuel economy
- The Environment – Composites are recyclable and their light weight reduces fuel consumption

Application Examples:

- Leaf Springs – Thermoplastic springs offer weight savings, have greater impact and fatigue performance than traditional metal springs, and can be custom built to achieve the lowest possible weight.
- Driveshafts – Thermoplastic driveshafts bring much greater torsional stiffness and higher damping capabilities versus metals.
- Wheels – Drastic weight savings can be achieved of as much as 45% for composite wheels. Improved ride and handling, better acceleration and brake performance, and exceptional corrosion resistance can also be achieved.

Features and Benefits:

- Weight reduction
- Decreased life cycle cost
- Durability
- Damage tolerance
- Fatigue resistance
- Environmental resistance
- 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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