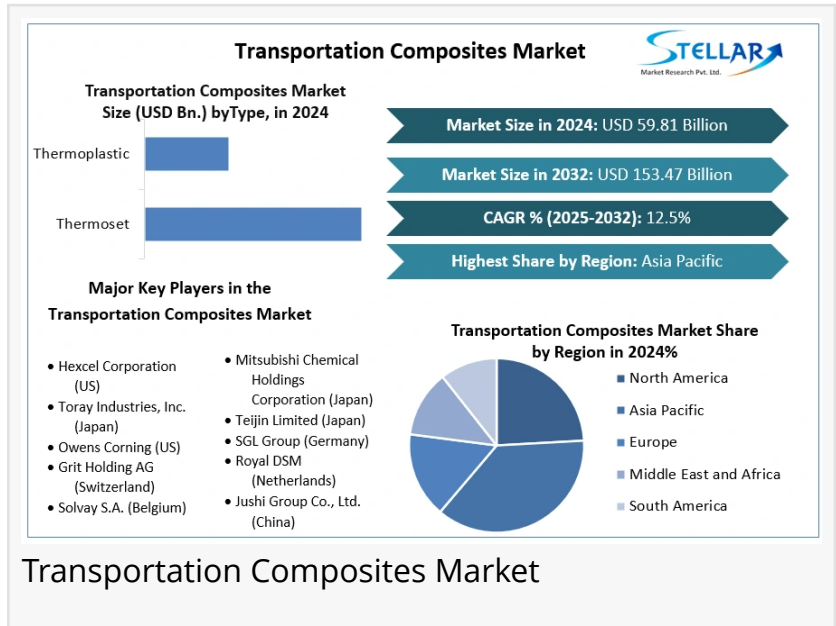


Transportation Composites Market to Surpass USD 153.47 Billion by 2032 | Hexcel Corporation, Toray Industries, Inc.

Transportation Composites Market size is estimated to grow at a CAGR of 12.5 % over the forecast period.

SAVANNAH, GA, UNITED STATES, July 18, 2025 /EINPresswire.com/ -- Stellar Market Research examines the growth rate of the [Transportation Composites Market](#) during the forecasted period 2025-2032

The Transportation Composites Market is projected to grow at a CAGR of approximately 12.5% over the forecast period. The Transportation Composites Market was valued at USD 59.81 billion in 2024 and is expected to reach USD 153.47 billion by 2032. The transportation composites market grows with the need for light, fuel-saving cars. Clean air rules, more use of EV, cutting-edge manufacturing, long-lasting parts, air travel growth, and wider use in army and public travel also push this market up.



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Lightweight, durable, and efficient, composites are the building blocks of a smarter, faster, and more sustainable transportation future.”

Dharati Raut

Transportation Composites Market Overview

The transportation composites market looks at light, strong stuff like carbon and glass fiber used in cars, planes, boats, and trains. These composites make fuel use better, cut down on waste gases, and boost how well things work. More electric cars, tough green rules, and more need for lasting, eco-friendly stuff are making this market grow.

North America and Europe are ahead in air travel and new ways to move, while Asia-Pacific is fast growing in cars. New ways to make things and recyclable composites make sure this changing area has a big future.

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Transportation Composites Market Dynamics

Drivers

Demand for Lightweight Materials to Improve Fuel Efficiency

Sectors such as car making and air travel are using light stuff like carbon and glass fiber to cut down on vehicle weight, better fuel use, and drop emissions. New things from BMW's carbon fiber cars to Airbus's mix-material planes show this move. Even with higher prices and hard recycling, better ways to make these materials are pushing up the growth of green, fuel-saving travel ways all over the world.

Increasing Demand for High-Performance and Efficient Transport

The need for good, quick cars asks for tough, light parts. Things like carbon fiber let cars look cool, move smoothly, and become safer. Better ways to make things and more electric cars push the use of composites in cars, planes, trains, and boats. This leads to green, fuel-saving travel that fits tight rules and what people around the world expect.

Technological Advancements in Composite Manufacturing

Tech upgrades such as auto fiber placing, resin mold tech, and 3D printing are cutting down costs of making composites and making the build faster. New heat-plastic composites can be reused and set quicker, raising both the low cost and green aspects. Firms like Arris and 9T Labs are pushing new ideas, making parts for moving that are lighter, tougher, and work better. These are used in cars, planes, and more areas.

Restrain

High Production Costs

High costs slow down the use of composites in moving things because stuff like carbon fiber is costly, making things takes lots of energy, you need special gear, and skilled workers. But, new ideas from companies like Arris Composites and team-ups like LeMond Carbon with Oak Ridge Lab are cutting costs and making it easier to reuse materials. This is making a path for cheaper, eco-friendly ways to make composites soon.

Innovations and Developments

Technological innovation is a key factor propelling the Transportation Composites Market

forward. Notable advancements include:

Automated Fiber Placement (AFP): This way uses robots to put carbon fiber onto molds with care. This lets us make complex shapes and cut down on waste. AFP makes making things faster and the parts work better.

High-Pressure Resin Transfer Molding (HP-RTM): HP-RTM helps make big parts with better strength by pushing resin into a mold with high force. This means quicker hardening and lower costs per cycle.

Transportation Composites Market Segmentation

By Type

By Type, the Transportation Composites Market is further segmented into Thermoset and Thermoplastic. Thermoset composites lead in the transportation composites market since they have great strength, heat control, and known making ways. Even with high costs and tough recycling, new green resins and more use in flying lift growth. Yet, thermoplastics are pulling ahead due to easy recycling and quick making, showing a slow change in the industry.

Transportation Composites Market Regional Analysis

Asia-Pacific: Asia Pacific leads the transportation composites market. This is due to fast industry growth, firm help from the government, big building works, and the presence of top makers. New links and the rise of the rail field push the need, even if problems like supply troubles and high costs to make the product exist.

North America: North America is the second-largest transportation composites market due to its big car and plane sectors, tough green rules, high-tech making tech, and more want for electric cars. New buys and smart ideas help push up growth and keep-up tries in this area.

Europe: Europe holds the spot as the third big market, mostly because it has key car and plane areas, a strong eye on being green, and high-tech making. New smart steps and buy-outs, such as when Solvay got epoxy and SGL Carbon grew more, push its rise even more.

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Transportation Composites Market Competitive Landscape

The global and regional players in the Transportation Composites Market concentrate on developing and enhancing their capabilities, resulting in fierce competition. Notable players include:

Hexcel Corporation (US)
Toray Industries, Inc. (Japan)
Owens Corning (US)
Grit Holding AG (Switzerland)
Solvay S.A. (Belgium)
Mitsubishi Chemical Holdings Corporation (Japan)
Teijin Limited (Japan)
SGL Group (Germany)
Royal DSM (Netherlands)
Jushi Group Co., Ltd. (China)

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