

Composite Process Material Kits Market: Global Trends, Opportunities, and Forecast (2022–2031)

They are preferred over traditional materials because they improve the qualities of their basic materials and are useful in a variety of situations.

WILMINGTON, DE, UNITED STATES, August 13, 2025 /EINPresswire.com/ -- According to a new report published by Allied Market Research, titled,

“

The global composite process material kits market was valued at \$109.4 million in 2021, and is projected to reach \$196.5 million by 2031, growing at a CAGR of 6.3% from 2022 to 2031”

Allied Market Research

[“Composite Process Material Kits Market,”](#) The composite process material kits market was valued at \$109.40 million in 2021, and is estimated to reach \$196.5 million by 2031, growing at a CAGR of 6.3% from 2022 to 2031.

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Market Overview

Composite process material kits are gaining traction across various industries, driven by their efficiency in the lay-up process. Two primary methods dominate this space:

Open Mold Technology:

A cost-effective method widely used in producing boats, RV components, tubs, showers, truck cabs, and fenders.

The hand lay-up method, the first fiber-reinforced plastic (FRP) molding process, requires minimal equipment and technical expertise, making it suitable for large products such as FRP vessels.

Although labor-intensive and low-volume, this method remains popular due to its affordability and adaptability.

Closed Mold Technology:

Used for higher precision and efficiency, especially in aerospace and automotive applications.

Key Challenges

One of the core issues in the industry is the difficulty in detecting internal structural damage in

composite materials. Unlike aluminum, which bends and dents visibly, composites often hide damage, complicating maintenance.

Although composites are durable and can potentially reduce lifecycle costs, their repair processes are more complex and expensive, which may hinder market growth in certain applications.

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Growth Drivers

Rising Demand in Transportation

Thermoplastic composites are increasingly used in automobiles, rail coaches, and heavy vehicles, helping reduce overall weight, improve fuel efficiency, and lower CO₂ emissions.

Compliance with environmental regulations such as CAFÉ standards (54.5 mpg by 2025) further supports adoption.

High-Performance Applications

Growing use of composites in racing and performance vehicles for components such as instrument panels, front-end modules, door systems, roof panels, and under-hood assemblies.

Market Segmentation

By Kit Type: Pre-cut shapes, combination kits, welded products, others

By Process Type: Prepreg layup, infusion process, others

By End-Use Industry: Aerospace & defense, wind energy, marine, transportation, others

By Region: North America, Europe, Asia-Pacific, LAMEA

Key Market Players

Leading companies in the global composite process material kits market include:

Airtech Advanced Materials Group, Aerovac Composites One, Shanghai Leadgo-Tech Co., Ltd., Diatex SAS, InCom Group, Metyx Composites, GEFiM, Pro-Vac Vacuum Consumables, Velocity Composites plc, and Solvay S.A.

Want to Access the Statistical Data and Graphs, Key Players' Strategies :

<https://www.alliedmarketresearch.com/composite-process-material-kits-market/purchase-options>

Conclusion

The composite process material kits market is poised for steady growth, fueled by advancements in lightweight materials and increasing applications across aerospace, automotive, marine, and renewable energy industries. However, the challenges in repair and maintenance of composites remain a restraint, creating opportunities for innovation in inspection and repair technologies.

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