

# Global High-performance Bioplastics for Automotive and Aerospace Market Size Study & Forecast, by Product, Application, and Regional Forecasts 2025-2035

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## Abstracts

The Global High-performance Bioplastics for Automotive and Aerospace Market is estimated at approximately USD 1.82 billion in 2024 and is poised to expand at a compelling CAGR of 15.20% over the forecast period 2025-2035. As sustainability mandates reshape engineering priorities across mobility sectors, bioplastics engineered for exceptional strength, heat resistance, and chemical durability are rapidly emerging as strategic materials of choice. These high-performance biopolymers—including Bio-PET, Bio-PA, and Bio-PP—are enabling OEMs and tier suppliers to phase out petroleum-based plastics without compromising on safety, mechanical efficiency, or lifecycle performance. Fueled by mounting regulatory push toward CO<sub>2</sub> neutrality, and automotive OEMs' ambition to achieve circularity across vehicle components, this market has moved beyond early-stage experimentation into large-scale, industrial-grade adoption.

The expanding use of bioplastics across interior, exterior, and structural vehicle components is propelling innovation in material formulation, processing, and integration. Bio-PET, owing to its exceptional tensile strength and lightweight nature, is becoming ubiquitous in seat fabrics, door panels, and dashboards. Meanwhile, Bio-PA (Polyamide) is carving out a niche in under-the-hood and structural aerospace applications due to its thermal endurance and stiffness-to-weight ratio. The shift toward electric vehicles and lightweight aircraft has further amplified the demand for such materials, which support emissions reduction without compromising structural integrity. Moreover, cutting-edge innovations in bio-based polymer synthesis—such as enzymatic polymerization and green catalysis—are enhancing the cost-competitiveness and

scalability of these bioplastics for high-load-bearing applications.

Regionally, Europe continues to take the lead as the most mature market, driven by robust green policy frameworks such as the EU Green Deal and stringent automotive sustainability standards. Major automakers and aerospace giants across Germany, France, and the UK are integrating bioplastics into next-gen vehicle platforms to meet ambitious circular economy and emissions targets. North America follows closely, where U.S.-based players are actively investing in biopolymer R&D and leveraging government-backed decarbonization initiatives. The Asia Pacific region, particularly China and Japan, is expected to witness the fastest expansion due to rapid electrification of mobility, high-tech aerospace production, and growing domestic bioplastics manufacturing capabilities. With intensifying public and private investment in renewable material ecosystems, the region is anticipated to play a pivotal role in global supply chain resilience and innovation diffusion.

Major market player included in this report are:

BASF SE

Arkema S.A.

Solvay S.A.

SABIC

Mitsubishi Chemical Group

DuPont de Nemours Inc.

NatureWorks LLC

DSM Engineering Materials

Evonik Industries AG

TotalEnergies Corbion

Toray Industries Inc.

RTP Company

FKuR Kunststoff GmbH

Covestro AG

Kaneka Corporation

## Global High-performance Bioplastics for Automotive and Aerospace Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Product:

Bio-PET

Bio-PA

Bio-PP

By Application:

Interior

Exterior

Structural

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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