Electric Vehicle Plastic Market By Material (Polypropylene (PP), Polyurethane (PUR), Acrylonitrile Butadiene Styrene (ABS), Polyvinyl Chloride (PVC), Polyoxymethylene (POM), Polystyrene (PS), Polycarbonate (PC), Polyamide (PA), Acrylic (PMMA), Others (Polyethylene)), By Vehicle (Hybrid Electric Vehicles (HEVs), Plug-In Hybrid Electric Vehicles (PHEVs), Battery Electric Vehicles (BEVs)), By Application (Interior furnishing, Exterior furnishing, Others): Global Opportunity Analysis and Industry Forecast, 2023-2032

Market Report | 2023-07-01 | 310 pages | Allied Market Research

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Report description:

The global electric vehicle plastic market is anticipated to reach $20,292.9 million by 2032, growing from?$1,810.8 million?in 2022 at a CAGR of?27.3?% from 2023 to 2032.

Electric vehicles (EVs) are automobiles that are powered by one or more electric motors, using electricity stored in rechargeable batteries or obtained from an external source such as a charging station. EVs are gaining popularity as a more environmentally friendly alternative to traditional internal combustion engine vehicles, as they produce zero tailpipe emissions and can reduce dependence on fossil fuels. Plastics have a wide range of uses and applications in various industries, including automotive manufacturing. Plastics are used in vehicles for components such as bumpers, interior trim, dashboards, and various other parts due to their lightweight, durability, and design flexibility.

Plastics are inherently lightweight materials compared to traditional metals. By incorporating lightweight plastics in various vehicle components, manufacturers can reduce the overall weight of the EV. This weight reduction helps offset the heavy battery packs used in EVs, which are necessary for storing and delivering electric power. A lighter vehicle requires less energy to move,

leading to improved fuel efficiency and extended driving range. Moreover, plastics offer a wide range of material properties that make them suitable for EV applications. They can be engineered to have high strength-to-weight ratios, excellent impact resistance, and good thermal insulation properties. These characteristics make plastics ideal for use in body panels, interior trim, and battery enclosures. By utilizing these materials strategically, manufacturers can reduce weight without compromising safety or performance. Furthermore, plastics provide greater design flexibility compared to metals. They can be molded into complex shapes, allowing for the integration of multiple functionalities within a single component. This flexibility enables innovative designs that optimize aerodynamics and reduce drag, further enhancing the fuel efficiency of EVs. In addition, plastics can be easily customized to meet specific design requirements, allowing manufacturers to create lightweight, efficient, and aesthetically appealing EVs. The use of lightweight plastics in electric vehicles contributes to improved fuel efficiency and extended driving range.

However, the current number of charging stations is relatively limited compared to the number of traditional fuel stations. This scarcity of charging stations can discourage potential EV buyers who rely on the convenience of readily available refueling options. The limited charging infrastructure poses a challenge for the widespread adoption of electric vehicles, thereby impacting the demand for EV plastic components used in their manufacturing. Moreover, charging an electric vehicle takes more time compared to refueling a traditional gasoline or diesel vehicle. This longer charging duration can contribute to range anxiety among potential EV buyers. Range anxiety refers to the fear of running out of battery power before reaching a charging station. It is primarily driven by concerns about the limited range of electric vehicles and the time required for recharging. Range anxiety can discourage potential buyers from choosing electric vehicles, negatively affecting the demand for EV plastic components. Plastics can be used in the construction of charging stations, including their external casings, internal components, and protective covers. Plastics offer advantages such as lightweight construction, corrosion resistance, and design flexibility, allowing for the creation of aesthetically pleasing and durable charging stations. Moreover, plastics can be utilized in the manufacturing of connector housings for charging cables and plugs. These housings provide protection for electrical connections and ensure safe and reliable charging. Plastics can offer excellent electrical insulation properties, impact resistance, and resistance to moisture and dust ingress. Furthermore, outdoor charging stations are exposed to various weather conditions, such as rain, snow, and UV radiation. Plastics with excellent weather resistance properties can withstand these environmental factors without degradation or loss of functionality, ensuring the longevity and reliability of the charging infrastructure. In addition, plastics allow for easy customization and design flexibility, enabling the integration of different features and functionalities into charging stations and related equipment. This includes the incorporation of branding elements, safety features, cable management systems, and user-friendly interfaces.

The COVID-19 pandemic had significant impacts on the market for electric vehicle plastic market. The pandemic severely disrupted global supply chains, affecting various industries, including automotive manufacturing. Plastic manufacturers faced challenges such as factory shutdowns, labor shortages, and logistics disruptions. These disruptions resulted in delays and difficulties in sourcing plastic components required for EV production. The economic impact of the pandemic led to reduced consumer spending in many areas, including automotive purchases. While the demand for EVs remained strong, some potential buyers delayed or postponed their purchasing decisions due to economic uncertainty. This slowdown in consumer spending indirectly affected the demand for plastic components used in EVs. The pandemic has caused fluctuations in raw material prices, including those used in plastic manufacturing. Disruptions in supply chains and shifts in demand have influenced the pricing of petroleum-based products and other raw materials used in plastic production. This volatility impacted the overall cost of manufacturing electric vehicles and influenced the plastic market.

The key players profiled in this report include BASF SE, SABIC, LyondellBasell Industries Holdings B.V., Evonik Industries, Covestro AG., DUPONT, Sumitomo Chemicals Co. Ltd., LG Chem Ltd, Asahi Kasei, and LANXESS. The market players are continuously striving to achieve a dominant position in this competitive market using strategies such as collaborations and acquisitions.

Key Benefits For Stakeholders

-This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the electric vehicle plastic market analysis from 2022 to 2032 to identify the prevailing electric vehicle plastic market opportunities.

-The market research is offered along with information related to key drivers, restraints, and opportunities.

-Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business

decisions and strengthen their supplier-buyer network.
-In-depth analysis of the electric vehicle plastic market segmentation assists to determine the prevailing market opportunities.
-Major countries in each region are mapped according to their revenue contribution to the global market.
-Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
-The report includes the analysis of the regional as well as global electric vehicle plastic market trends, key players, market segments, application areas, and market growth strategies.

Additional benefits you will get with this purchase are:
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- Product Benchmarking / Product specification and applications
- Technology Trend Analysis
- Distributor margin Analysis
- Patient/epidemiology data at country, region, global level
- Regulatory Guidelines
- Strategic Recommedations
- Additional company profiles with specific to client's interest
- Additional country or region analysis- market size and forecast
- Brands Share Analysis
- Criss-cross segment analysis- market size and forecast
- Historic market data
- Key player details (including location, contact details, supplier/vendor network etc. in excel format)
- SWOT Analysis
Key Market Segments
By Material
- Polypropylene (PP)
- Polyurethane (PUR)
- Acrylonitrile Butadiene Styrene (ABS)
- Polyvinyl Chloride (PVC)
- Polyoxymethylene (POM)
- Polystyrene (PS)
- Polycarbonate (PC)
- Polyamide (PA)
- Acrylic (PMMA)
- Others (Polyethylene)

By Vehicle
- Hybrid Electric Vehicles (HEVs)
- Plug-In Hybrid Electric Vehicles (PHEVs)
- Battery Electric Vehicles (BEVs)
By Application
- Interior furnishing
- Exterior furnishing
- Others
By Region
- North America
? U.S.
? Canada
? Mexico
- Europe
? Germany
? UK
? France
? Spain
? Italy
? Rest of Europe
- Asia-Pacific
? China
? Japan
? India
? South Korea
? Australia
? Rest of Asia-Pacific
- LAMEA
? Brazil
? South Arabia
? United Arab Emirates
? South Africa
? Rest of LAMEA
- Key Market Players
? BASF SE
? SABIC
? LyondellBasell Industries Holdings B.V.
? Evonik Industries
? Covestro AG.
? DUPONT
? Sumitomo Chemicals Co. Ltd.
? LG Chem Ltd
? Asahi Kasei
? LANXESS

Table of Contents:

Electric Vehicle Plastic Market By Material (Polypropylene (PP), Polyurethane (PUR), Acrylonitrile Butadiene Styrene (ABS), Polyvinyl Chloride (PVC), Polyoxymethylene (POM), Polystyrene (PS), Polycarbonate (PC), Polyamide (PA), Acrylic (PMMA), Others (Polyethylene)), By Vehicle (Hybrid Electric Vehicles (HEVs), Plug-In Hybrid Electric Vehicles (PHEVs), Battery Electric Vehicles (BEVs)), By Application (Interior furnishing, Exterior furnishing, Others): Global Opportunity Analysis and Industry Forecast, 2023-2032

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