

Global Automotive Engine Compartment Materials Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Engine Compartment Materials market size was valued at US\$ 6091 million in 2025 and is forecast to a readjusted size of US\$ 8739 million by 2032 with a CAGR of 5.3% during review period.

Automotive engine compartment materials are specialized materials used within the engine compartment to provide thermal insulation, soundproofing, fire resistance, corrosion protection, vibration damping, structural support, and lightweighting capabilities. Key categories include heat shield materials, sound-absorbing and sound-insulating materials, flame-retardant composites, high-temperature plastics, lightweight metals, sealing materials, and functional coatings. Given the harsh operating environment?characterized by high temperatures, exposure to fluids, mechanical vibration, and complex chemical conditions?these materials must exhibit high-temperature resistance, aging resistance, corrosion resistance, low volatility, lightweight properties, and long-term reliability. They are widely used in traditional internal combustion engine vehicles, new energy vehicles (NEVs), hybrid vehicles, and high-performance automobiles.

The upstream sector comprises suppliers of glass fiber, carbon fiber, aramid fiber, aluminum and magnesium alloys, engineering plastics (such as PA, PPS, and PEEK), polyurethane foam, rubber, flame retardants, resin systems, and coating materials. The midstream sector consists of automotive material companies, composite manufacturers, and component suppliers that produce specialized engine compartment materials through formulation design, molding, and performance optimization. The downstream sector primarily supplies vehicle manufacturers, Tier 1 automotive component suppliers,

and engine system providers. Future trends for these materials point toward lightweighting, enhanced high-temperature resistance, compatibility with electrification, and eco-friendly recyclability. Driven by the rising market penetration of NEVs, the growing need for thermal management in electric drive systems, and increasingly stringent vehicle energy-saving and emission standards, high-performance composites, high-temperature engineering plastics, and smart thermal insulation materials are poised to become key growth areas. Companies possessing capabilities in material innovation, large-scale production, and deep collaboration with OEMs will secure greater market opportunities within the automotive lightweighting and NEV supply chains.

Report Scope

This report is a detailed and comprehensive analysis for global Automotive Engine Compartment Materials market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automotive Engine Compartment Materials market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Automotive Engine Compartment Materials market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Automotive Engine Compartment Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Automotive Engine Compartment Materials market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive Engine Compartment Materials

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Engine Compartment Materials market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include DOW, Celanese, Mitsui Plastics, BASF, SABIC, Carpenter, DORKEN, Toray, Asahi Kasei, PLITEK, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Automotive Engine Compartment Materials market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Engineering Plastics

Metallic Materials

Thermal and Acoustic Insulation Composites

Others

Market segment by Application Components

Engine Decorative Cover

Battery and Electronic Control Unit Protective Components

Heat Shields and Heat Insulation Panels

Piping and Connectors

Others

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