

Electric Vehicle Adhesives Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031)

> ****Industry:**** Coatings, Adhesives & Functional Chemicals (Chemicals & Materials)
> ****Source:**** <https://www.mordorintelligence.com/industry-reports/electric-vehicle-adhesives-market>
> ****Scraped Date:**** 2026-09-17

Executive Market Summary

Market Metric	Details
Base Market Size	USD 3.12 billion
Projected Forecast (2031)	USD 3.12 billion
Growth Rate (CAGR)	18.67 %
Largest Market Region	N/A
Fastest-Growing Region	N/A

Market Visualizations & Infographics

! [Major players in Electric Vehicle Adhesives industry] (images/chart_2.png)

! [Electric Vehicle Adhesives Market Size] (images/chart_3.png)

! [Electric Vehicle Adhesives Market Share by Vehicle Type, 2025] (images/chart_4.png)

! [Electric Vehicle Adhesives Market Share by Application, 2025] (images/chart_5.png)

! [Electric Vehicle Adhesives Market Growth Rate by Region] (images/chart_6.png)

! [Electric Vehicle Adhesives Market Concentration] (images/chart_7.png)

! [Icon] (images/chart_8.png)

! [footer background image] (images/chart_10.png)

! [Mordor Intelligence on Facebook] (images/chart_12.svg)

! [Mordor Intelligence on Pinterest] (images/chart_14.svg)

! [Mordor Intelligence on Instagram] (images/chart_15.svg)

! [ESOMAR] (images/chart_17.png)

! [GPTW] (images/chart_19.png)

Comprehensive Research Analysis

Overview Points List Flex 49 Share Feature End

Market Overview

Study Period	2021 - 2031
Market Size (2026)	USD 3.12 Billion
Market Size (2031)	USD 7.34 Billion
Growth Rate (2026 - 2031)	18.67 %
Fastest Growing Market	Asia-Pacific

Largest Market | Asia-Pacific |

Market Concentration | Low |

Major Players*Disclaimer: Major Players sorted in no particular order

Image © Mordor Intelligence. Reuse requires attribution under CC BY 4.0.

|

Market Overview

Electric Vehicle Adhesives Market Analysis by Mordor IntelligenceThe electric vehicle adhesives market size was valued at USD 2.67 billion in 2025 and is estimated to grow from USD 3.12 billion in 2026 to USD 7.34 billion by 2031, at a CAGR of 18.67% during the forecast period (2026-2031). Growth is tied to battery designs that shift structural, thermal, and safety functions into the adhesive layer, rather than relying on additional module structures to perform those functions. Cell-to-pack and cell-to-chassis designs eliminate the module layer, requiring materials that perform under thermal, mechanical, and crash-load conditions while maintaining stable bonds during normal vehicle use. A 2026 study found that structural adhesives for cell-to-chassis applications require lap shear strength above 20 MPa on aluminum and bond integrity from -40°C to +80°C, which favors specialty formulations over standard sealants and limits the role of products designed only for basic sealing. Expanding battery production lines also increases the value of local dispensing support, viscosity control, just-in-sequence delivery, and technical personnel who can adapt materials to the process conditions of individual plants. Higher heat loads from high-nickel batteries and faster charging increase demand for thermal materials that combine conductivity with reliable processing performance. As a result, suppliers must manage trade-offs among filler content, stability, working time, and bond strength.

Key Report Takeaways

- * By vehicle type, Battery Electric Vehicles held a 68.23% share in 2025, while the segment is forecast to grow at a 21.13% CAGR through 2031.
- * By adhesive type, Epoxy Adhesives accounted for a 35.14% share in 2025, while Polyurethane Adhesives are forecast to grow at a CAGR of 20.87% through 2031.
- * By application, Pack and Module Bonding accounted for 44.76% of the electric vehicle adhesives market in 2025, while Battery Cell Encapsulation is forecast to expand at a 21.45% CAGR through 2031.
- * By geography, Asia-Pacific accounted for 51.61% of revenue in 2025 and is forecast to expand at a 20.58% CAGR through 2031.

Key Market Trends

Global Electric Vehicle Adhesives Market Trends and InsightsDrivers Impact Analysis*

Drivers | (~) % Impact on CAGR Forecast | Geographic Relevance | Impact Timeline |

Expansion of EV Battery Gigafactories | +5.0% | Global, concentrated in China, the U.S. Sunbelt, and Central Europe | Short term (≤ 2 years) |

Rising Adhesive Intensity in Cell-to-Pack and Structural Pack Designs | +4.5% | Global, China-led with spillover to North America and the EU | Medium term (2-4 years) |

Lightweighting Through Multi-Material Vehicle Construction | +2.8% | North America and the EU, with early adoption in Japan and South Korea | Medium term (2-4 years) |

Higher Thermal-Management Requirements from High-Nickel and Fast-Charging Batteries | +3.2% | Global, concentrated in premium EV segments | Long term (≥ 4 years) |

Adhesive Qualification Lock-In Across Original Equipment Manufacturer (OEM) and Battery Platforms | +2.5% | Global | Long term (≥ 4 years) |

Competitive Landscape

Competitive Landscape

The electric vehicle adhesives market is fragmented. Henkel, Dow, Sika AG, 3M, DuPont, H.B. Fuller, and Wacker Chemie have established positions through qualified product portfolios, manufacturing reach, and application engineering teams located near battery plants. Long OEM qualification programs reinforce these positions, as approved suppliers can remain on a platform for 3-5 years. Emerging Asian formulators compete more actively in cost-sensitive, non-premium BEV applications. The competitive environment is characterized by strong positions at the high end and price pressure in lower-cost applications.

Sika closed its acquisition of Akkim in 2026, expanding its adhesives and sealants presence across Eastern Europe, Central Asia, the Middle East, and North Africa. Henkel launched Loctite Solve in April 2026 to enable virtual simulation of adhesive performance and early integration of material data into component design. In May 2026, Henkel introduced the Teroson EP 52 Series, a solvent-free epoxy that combines structural bonding and vibration damping.

Competition also centers on products that simplify battery assembly, including multifunctional adhesives that combine structural joining and damping. Debonding-on-demand formulations address battery disassembly at the end of service life. Solid-state batteries represent a potential opportunity, as ceramic electrolyte substrates and different exposure conditions require new adhesive approaches. Chengdu Guibao Science and Technology and Guangzhou Jointas Chemical are gaining presence in cost-sensitive Chinese BEV applications. Established suppliers must protect qualified programs while responding to lower-cost regional alternatives, keeping the market competitive.

Electric Vehicle Adhesives Industry Leaders* Henkel AG & Co. KGaA

* Sika AG

* 3M

* Dow

* H.B. Fuller Company

* *Disclaimer: Major Players sorted in no particular order

Image © Mordor Intelligence. Reuse requires attribution under CC BY 4.0.

Component Component 3 Scope Of The Report Bottom

Global Electric Vehicle Adhesives Market Report ScopeElectric vehicle (EV) adhesives are specialized bonding and sealing materials used to assemble electric vehicles, replacing or supplementing traditional mechanical fasteners such as bolts and welds.

The electric vehicle adhesives market is segmented by vehicle type, adhesive type, application, and geography. By vehicle type, the market is segmented into battery electric vehicles and plug-in hybrid electric vehicles. By adhesive type, the market is segmented into epoxy adhesives, polyurethane adhesives, silicone adhesives, acrylic adhesives, and other adhesive types. By application, the market is segmented into pack and module bonding, thermal interface bonding, battery cell encapsulation, and others. The report also covers market size and forecasts for electric vehicle adhesives across 15 countries in major regions. The market sizes and forecasts are provided in terms of value (USD).

By Vehicle Type Battery Electric Vehicles |
Plug-in Hybrid Electric Vehicles |

Segmentation Accordion Item

By Geography Asia-Pacific | China |
| India |
| Japan |
| South Korea |
| ASEAN Countries |
| Rest of Asia-Pacific |
North America | United States |
| Canada |
| Mexico |
Europe | Germany |
| United Kingdom |
| France |
| Italy |
| NORDIC Countries |
| Rest of Europe |
South America | Brazil |
| Argentina |
| Rest of South America |
Middle East and Africa | Saudi Arabia |
| South Africa |
| Rest of Middle East and Africa |

Frequently Asked Questions

What is current market size of Electric Vehicle Adhesives Market?

The electric vehicle adhesives market size was valued at USD 2.67 billion in 2025 and is estimated to grow from USD 3.12 billion in 2026 to USD 7.34 billion by 2031, at a CAGR of 18.67% during the forecast period (2026-2031).

Which vehicle type uses the most electric vehicle adhesives?

Battery Electric Vehicles held a 68.23% share in 2025 and are expected to grow at a 21.13% CAGR through 2031. Their purpose-built battery packs place more structural and thermal responsibility on adhesive joints.

Which adhesive chemistry is growing the fastest for EV battery use?

Polyurethane Adhesives are projected to grow at a 20.87% CAGR through 2031 because they can support thermal-interface and structural-sealing functions. Their performance depends on the balance of filler loading, dispensing behavior, and bond strength.

Which battery application is expanding fastest?

Battery Cell Encapsulation is forecast to expand at a 21.45% CAGR by 2031, supported by cell-to-pack battery designs. It supports electrical isolation, vibration damping, and thermal runaway containment around individual cells.