

Global Power Electronics Encapsulation Materials Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Power Electronics Encapsulation Materials market size was valued at US\$ 689 million in 2025 and is forecast to a readjusted size of US\$ 1423 million by 2032 with a CAGR of 10.7% during review period.

Power Electronics Encapsulation Materials are high-reliability electronic materials used for internal and external encapsulation protection of power semiconductor devices and power modules. Their main functions are to provide electrical insulation, dielectric protection, stress relief, moisture and contamination protection, mechanical fixation and localized thermal management for chips, bonding wires, busbars, terminals, ceramic substrates and module cavities under high-voltage, high-current, high-temperature, high-humidity, vibration and thermal cycling conditions. These materials mainly include silicone gels, epoxy encapsulants, epoxy molding compounds, polyurethane potting compounds and thermally conductive insulating encapsulation materials, supplied in forms such as gels, liquid potting materials, molding powders, pastes and two-component systems.

Power Electronics Encapsulation Materials are mainly used in electric vehicle traction inverters, on-board chargers, DC converters, photovoltaic inverters, energy storage converters, industrial drives, railway traction systems, wind power converters, server power supplies and high-voltage power modules. Major production regions include Japan, the United States, Germany, South Korea, China, Switzerland, Norway and Taiwan. Japanese, European, U.S. and South Korean suppliers hold strong positions in high-temperature silicone gels, semiconductor-grade epoxy molding compounds and automotive-grade power module encapsulation materials, while Chinese suppliers are

accelerating adoption in electric vehicles, solar and energy storage, industrial power supplies and general power electronics encapsulation applications.

In 2025, global Power Electronics Encapsulation Materials production reached approximately 44-48 thousand tons. The average FOB price was approximately USD 14.2-15.8 per kg, with general-purpose industrial power module potting materials priced below the market average, while automotive-grade silicone gels, high-temperature low-stress encapsulants, SiC power module encapsulation materials and semiconductor-grade epoxy molding compounds commanded higher prices.

The global Power Electronics Encapsulation Materials market is moving from conventional silicon-based power devices toward higher power density, higher voltage platforms and wide bandgap semiconductor applications. Electric vehicle traction inverters, on-board chargers, DC converters, photovoltaic inverters, energy storage converters, industrial drives and data center power supplies are raising reliability requirements for power modules. Encapsulation materials are no longer simple insulation and protection materials; they increasingly influence module temperature resistance, voltage endurance, lifetime, partial discharge performance, moisture resistance and thermal cycling stability. As 800 V vehicle platforms, SiC power modules and high-frequency high-efficiency power supply architectures gain wider adoption, low-stress silicone gels, high-temperature encapsulants, semiconductor-grade epoxy molding compounds and thermally conductive insulating encapsulation materials will continue to gain value. Collaboration among material suppliers, power device manufacturers, module manufacturers and automakers is also becoming deeper and more application-specific.

The main market challenges come from long reliability qualification cycles, rapid technology transitions and raw material cost volatility. Power electronics encapsulation materials usually need to pass high-temperature reverse bias, power cycling, temperature cycling, damp heat aging, partial discharge and automotive reliability tests, resulting in a much longer customer qualification cycle than general electronic adhesives. Meanwhile, SiC and GaN devices operate at higher junction temperatures, higher switching frequencies and stronger electric fields, creating stricter requirements for dielectric strength, ionic impurity control, modulus stability and thermal aging resistance. Prices of siloxane intermediates, epoxy resins, anhydride curing agents, silica, alumina, boron nitride and other functional fillers can also affect margins and pricing power. Future competition will focus more on automotive-grade qualification capability, high-temperature low-stress formulation technology, compatibility with wide bandgap semiconductors, localized supply and joint development with customer

packaging processes.

This report is a detailed and comprehensive analysis for global Power Electronics Encapsulation Materials market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Power Electronics Encapsulation Materials market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Power Electronics Encapsulation Materials market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Power Electronics Encapsulation Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Power Electronics Encapsulation Materials market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Power Electronics Encapsulation 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 Power Electronics Encapsulation Materials

market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Henkel AG & Co. KGaA, Dow Inc., KCC Corporation (Momentive Performance Materials), Shin-Etsu Chemical Co., Ltd., Wacker Chemie AG, Parker Hannifin Corporation (Parker LORD), Huntsman Corporation, ELANTAS GmbH, Resonac Corporation, Sumitomo Bakelite Co., Ltd., etc.

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

Market Segmentation

Power Electronics Encapsulation 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Silicone Gel Encapsulation Materials

- Epoxy Encapsulation Materials

- Epoxy Molding Compounds

- Others

Market segment by Semiconductor Platform

- Silicon Power Devices

- Silicon Carbide Power Devices

- Gallium Nitride Power Devices

- Others

Market segment by Voltage Class

Low Voltage Power Electronics

Medium Voltage Power Electronics

High Voltage Power Electronics

Market segment by Cure Mechanism

Heat Cure Materials

Addition Cure Silicone Materials

Room Temperature Cure Materials

Others

Market segment by Application

Automotive and Electric Vehicle Power Electronics

Industrial Power Electronics

Energy Power Electronics

Others

Major players covered

Henkel AG & Co. KGaA

Dow Inc.

KCC Corporation (Momentive Performance Materials)

Shin-Etsu Chemical Co., Ltd.

Wacker Chemie AG

Parker Hannifin Corporation (Parker LORD)

Huntsman Corporation

ELANTAS GmbH

Resonac Corporation

Sumitomo Bakelite Co., Ltd.

Panasonic Industry Co., Ltd.

Nagase ChemteX Corporation

Element Solutions Inc. (MacDermid Alpha Electronics Solutions)

Elkem ASA

Sika AG

CHT Group

DELO Industrial Adhesives GmbH & Co. KGaA

RAMPF Group

Master Bond Inc.

Vitrochem Technology Pte Ltd

Veeyor Polymers Pvt. Ltd.

Shanghai Beginor Polymer Material Co., Ltd.

Hangzhou Zhijiang Silicone Chemicals Co., Ltd.

Hubei Huitian New Materials Co., Ltd.

Everwide Chemical Company

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Power Electronics Encapsulation Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Power Electronics Encapsulation Materials, with price, sales quantity, revenue, and global market share of Power Electronics Encapsulation Materials from 2021 to 2026.

Chapter 3, the Power Electronics Encapsulation Materials competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Power Electronics Encapsulation Materials breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Power Electronics Encapsulation Materials market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Power Electronics Encapsulation Materials.

Chapter 14 and 15, to describe Power Electronics Encapsulation Materials sales channel, distributors, customers, research findings and conclusion.

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