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Electronic Adhesives Market Forecasts to 2032 – Global Analysis By Product Type (Electrically Conductive Adhesives, Thermally Conductive Adhesives, UV Curing Adhesives, Epoxy-Based Adhesives, Silicone-Based Adhesives, Acrylic-Based Adhesives, Polyurethane-Based Adhesives, Anisotropic Conductive Adhesives (ACA) and Pressure-Sensitive Adhesives (PSA)), Form, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Electronic Adhesives Market is accounted for $5.40 billion in 2025 and is expected to reach $9.25 billion by 2032 growing at a CAGR of 8.0% during the forecast period. Electronic adhesives are advanced bonding solutions designed for assembling and protecting electronic components. They ensure strong attachment, effective insulation, and efficient heat dissipation, all of which are critical for device reliability. Widely used in printed circuit boards, microchips, sensors, displays, and consumer electronics, these adhesives come in various chemistries such as epoxy, silicone, and acrylic. Their advantages include enabling compact designs, safeguarding devices against shock, humidity, and environmental stress, and extending operational lifespan. As the electronics industry pushes toward smaller and more powerful devices, electronic adhesives play an increasingly vital role in enhancing performance, durability, and long-term stability of products.

According to the U.S. Department of Energy, electric vehicle (EV) sales in the United States surpassed 1 million units in 2023, marking a historic milestone in EV adoption.

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Market Dynamics:

Driver:

Rising demand for miniaturized electronics

The increasing trend toward smaller, portable, and high-performance electronic devices strongly fuels the electronic adhesives market. With rapid advancements in smartphones, smartwatches, IoT gadgets, and compact medical devices, manufacturers require adhesives capable of ensuring reliable bonding in restricted spaces. These adhesives not only secure components but also deliver heat management, durability, and protection from mechanical and environmental stress. Their role in supporting compact architectures in automotive electronics and healthcare devices further strengthens their importance. As industries innovate toward multifunctional, lightweight products, the reliance on electronic adhesives grows steadily, making miniaturization one of the most critical factors driving market expansion worldwide.

Restraint:

High material and production costs

The electronic adhesives market faces significant restraint due to expensive raw materials and complex production processes. Premium adhesives such as silicone, epoxy, and acrylic require advanced manufacturing methods and strict compliance with safety and quality standards, which elevates their cost. In industries like automotive and healthcare electronics, the need for adhesives with specialized performance further drives up pricing. Smaller producers in cost-sensitive markets often hesitate to adopt these solutions because of affordability issues. Although demand for high-performance bonding materials is rising, cost barriers hinder large-scale acceptance, making it difficult for manufacturers to expand while ensuring consistent quality and long-term competitiveness.

Opportunity:

Rising demand for medical electronics

Medical electronics present a strong growth pathway for electronic adhesives. From imaging systems and wearables to implantable devices, healthcare technologies rely on adhesives for precision bonding, durability, and biocompatibility. Adhesives are

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essential to achieve compact designs while maintaining patient safety and device reliability. With increasing emphasis on telemedicine, continuous monitoring, and personalized healthcare, adhesives are gaining importance in supporting miniaturized and portable devices. Additionally, the surge in demand for disposable diagnostic tools and advanced treatment systems further drives this opportunity. As innovation in medical electronics accelerates, adhesives will play a central role in enabling next-generation healthcare technologies and improving patient outcomes.

Threat:

Volatility in raw material supply

The electronic adhesives market is highly vulnerable to raw material price swings and supply chain instability. Since major adhesive components like silicones, acrylics, and epoxies are derived from petrochemicals, their costs fluctuate with global oil markets. Geopolitical conflicts, shipping delays, or material shortages can quickly raise expenses and constrain supplies. This unpredictability makes it difficult for producers to sustain consistent pricing and production capacity. In many cases, companies must explore alternative materials or reformulate products, which increases research costs and delays. Continued volatility in raw materials not only threatens profitability but also restricts growth opportunities, creating persistent risks for adhesive manufacturers.

Covid-19 Impact:

The outbreak of COVID-19 produced both challenges and opportunities for the electronic adhesives industry. In the early stages, global supply chain disruptions, transport restrictions, and factory closures negatively affected the output of electronics and automotive products, reducing adhesive demand. Yet, rising reliance on digital devices for remote work, online education, and healthcare solutions sparked significant growth in areas like smartphones, computers, medical wearables, and diagnostic equipment. Adhesives proved essential in supporting these technologies, driving recovery despite initial setbacks. The pandemic emphasized the value of supply chain resilience and product innovation, paving the way for the electronic adhesives market’s sustained expansion.

The epoxy-based adhesives segment is expected to be the largest during the forecast period

The epoxy-based adhesives segment is expected to account for the largest market

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share during the forecast period because of their reliability, versatility, and strength. They are extensively applied in printed circuit boards, microchips, sensors, and coating solutions, offering outstanding bonding capability along with resistance to heat, chemicals, and environmental stress. Their durability makes them ideal for industries requiring robust performance, including consumer electronics, automotive systems, and industrial applications. Epoxies also contribute to miniaturized designs while ensuring long-lasting device stability. These advantages make them indispensable in supporting next-generation electronics, establishing epoxy-based adhesives as the most widely adopted segment across diverse applications and reinforcing their dominant market presence.

The telecom & 5G infrastructure segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the telecom & 5G infrastructure segment is predicted to witness the highest growth rate, fueled by widespread 5G deployment and the expansion of IoT devices. Adhesives play an essential role in ensuring secure bonding, efficient heat dissipation, and environmental protection for electronic components in base stations, antennas, and communication hardware. Their ability to support compact designs and long-lasting reliability is crucial for equipment functioning under heavy data loads. With governments and industries investing heavily in digital infrastructure, the demand for high-performance adhesives in telecom equipment continues to climb. This segment shows the strongest growth momentum, creating significant opportunities for adhesive manufacturers worldwide.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, supported by its status as the world’s largest electronics production base. Nations such as China, Japan, South Korea, and Taiwan are global leaders in manufacturing semiconductors, displays, circuit boards, and consumer electronic devices. High demand for automotive electronics, industrial equipment, and smartphones further boosts adhesive usage across the region. Rapid expansion of electric vehicles, renewable energy projects, and 5G networks adds momentum to growth. Strong supply capabilities, competitive manufacturing costs, and rising local consumption ensure that Asia-Pacific remains the most influential region in shaping the global electronic adhesives market.

Region with highest CAGR:

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Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, supported by advancements in cutting-edge technologies and expanding end-use industries. Strong demand from electric vehicles, 5G communication systems, and next-generation medical electronics is accelerating adhesive adoption across the region. North America's leadership in R&D and innovation also encourages the development of high-performance adhesive solutions tailored to complex applications. Rising investment in aerospace, renewable energy, and industrial electronics adds further momentum. Alongside supportive regulations and robust manufacturing infrastructure, these factors ensure North America will experience the highest CAGR, positioning it as a key growth driver worldwide.

Key players in the market

Some of the key players in Electronic Adhesives Market include Henkel AG & Co. KgaA, 3M Company, H.B. Fuller Company, Dow Inc., Sika AG, Arkema S.A., BASF SE, Ashland, Avery Dennison Corporation, Covestro AG, Huntsman International LLC, Wacker Chemie AG, Illinois Tool Works Inc. (ITW), Permabond LLC and Pidilite Industries Ltd.

Key Developments:

In May 2025, 3M has reached an agreement that resolves all legacy claims related to the Chambers Works site in Salem County, New Jersey, currently owned by The Chemours Company and, before that, by DuPont. In addition, the settlement extends to PFAS-related claims that the State of New Jersey and its departments have, or may in the future have, against 3M.

In December 2024, H.B. Fuller Company announced that it has signed agreements to acquire two leading medical adhesive technology companies: GEM S.r.l. and Medifill Ltd. Medifill Ltd. is an Irish formulator and producer of medical-grade cyanoacrylate adhesives with a state-of-the-art clean room and manufacturing capabilities.

In February 2024, Henkel has signed an agreement to acquire the US-based Seal for Life Industries LLC from Arsenal Capital Partners (USA). Seal for Life is a specialized supplier of protective coating and sealing solutions in a broad variety of infrastructure markets such as renewable energy, oil & gas, and water. The company operates globally and has generated sales of approximately 250 million euros in 2023. Financial details of the transaction were not disclosed.

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Product Types Covered:

- Electrically Conductive Adhesives
- Thermally Conductive Adhesives
- UV Curing Adhesives
- Epoxy-Based Adhesives
- Silicone-Based Adhesives
- Acrylic-Based Adhesives
- Polyurethane-Based Adhesives
- Anisotropic Conductive Adhesives (ACA)
- Pressure-Sensitive Adhesives (PSA)

Forms Covered:

- Liquid
- Paste
- Film
- Tape
- Pellet/Preform

Applications Covered:

- Die Attach

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- Underfill
- Encapsulation/Potting
- Conformal Coating
- Wire Tacking
- SMD Bonding
- IC Packaging
- Thermal Interface Bonding
- LED Assembly
- Sensor Mounting

End Users Covered:

- Consumer Electronics
- Automotive Electronics
- Industrial Electronics
- Medical Devices
- Aerospace & Defense
- Telecom & 5G Infrastructure
- Renewable Energy Systems

Regions Covered:

- North America

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- US
- Canada
- Mexico

Europe

- Germany
- UK
- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

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Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

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Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Contents

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5 GLOBAL ELECTRONIC ADHESIVES MARKET, BY PRODUCT TYPE

5.1 Introduction
5.2 Electrically Conductive Adhesives
5.3 Thermally Conductive Adhesives
5.4 UV Curing Adhesives
5.5 Epoxy-Based Adhesives
5.6 Silicone-Based Adhesives
5.7 Acrylic-Based Adhesives
5.8 Polyurethane-Based Adhesives
5.9 Anisotropic Conductive Adhesives (ACA)
5.10 Pressure-Sensitive Adhesives (PSA)

6 GLOBAL ELECTRONIC ADHESIVES MARKET, BY FORM

6.1 Introduction
6.2 Liquid
6.3 Paste
6.4 Film
6.5 Tape
6.6 Pellet/Preform

7 GLOBAL ELECTRONIC ADHESIVES MARKET, BY APPLICATION

7.1 Introduction
7.2 Die Attach
7.3 Underfill
7.4 Encapsulation/Potting
7.5 Conformal Coating
7.6 Wire Tacking
7.7 SMD Bonding
7.8 IC Packaging
7.9 Thermal Interface Bonding
7.10 LED Assembly
7.11 Sensor Mounting

8 GLOBAL ELECTRONIC ADHESIVES MARKET, BY END USER

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9 GLOBAL ELECTRONIC ADHESIVES MARKET, BY GEOGRAPHY

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info@marketpublishers.com

10 KEY DEVELOPMENTS

11 COMPANY PROFILING

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List Of Tables

LIST OF TABLES

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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