

Engineering Adhesives Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Epoxies, Polyurethanes, Cyanoacrylates, Methacrylates, Others), By Application (Transportation, Construction, Electrical & Electronics, Energy, Others), By Region and Competition, 2020-2030F

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Report description:

Market Overview

The Global Engineering Adhesives Market was valued at USD 19.56 Billion in 2024 and is projected to reach USD 27.79 Billion by 2030, growing at a CAGR of 6.23% during the forecast period. Engineering adhesives are essential bonding agents used across industries such as automotive, aerospace, electronics, and construction, owing to their high strength, durability, and resistance to environmental conditions. The market's growth is propelled by increasing adoption of lightweight materials in manufacturing, driven by the need for improved fuel efficiency and reduced emissions. These adhesives enable effective bonding of materials like composites, aluminum, and engineered plastics that are integral to lightweight design. Technological innovation in adhesive formulations and the rising demand for sustainable and efficient manufacturing solutions are further enhancing market prospects. As industries continue to shift toward more advanced materials and processes, engineering adhesives are playing an increasingly pivotal role in product development and structural applications.

Key Market Drivers

Rising Demand from End-Use Industries

The accelerating demand from various end-use industries is a major driver of the global engineering adhesives market. Among these, the automotive sector stands out as a primary contributor. The industry's transition toward lightweight construction materials-such as aluminum and advanced composites-has underscored the importance of engineering adhesives in assembly processes. These adhesives provide critical bonding solutions that help achieve enhanced structural strength while reducing overall vehicle weight, thereby improving fuel efficiency and minimizing emissions. As global automotive production continues to rise, the use of engineering adhesives is expanding rapidly. Their relevance is not limited to vehicles; sectors such as aerospace,

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construction, and electronics are increasingly incorporating these adhesives to meet evolving material and performance demands, fueling further market growth.

Key Market Challenges

Technical Challenges

The growth of the engineering adhesives market is constrained by several technical hurdles. Adhesives used in industries like aerospace and automotive must endure extreme environmental conditions, including high temperatures, pressure variations, and chemical exposure. This necessitates specialized formulations that maintain bond strength under stress. Furthermore, ensuring compatibility with a wide range of substrates-including composites, metals, and plastics-complicates adhesive development. Low-energy surfaces, such as polyethylene or polypropylene, pose persistent bonding difficulties. Additionally, manufacturers are under pressure to reduce curing times and improve process efficiency, which presents the challenge of balancing fast processing with long-term durability. In safety-critical applications, especially aerospace, reliability of adhesive bonds over extended periods remains a formidable concern. Overcoming these technical limitations will be vital to sustaining innovation and competitiveness in the market.

Key Market Trends

Rising Demand for Adhesives for Additive Manufacturing (AM)

A significant trend influencing the engineering adhesives market is the rising demand for adhesives tailored to Additive Manufacturing (AM) applications. As 3D printing gains traction across sectors such as aerospace, healthcare, and consumer goods, the need for adhesives capable of supporting these advanced fabrication methods is increasing. These adhesives play a vital role in ensuring structural integrity and precision in layer-by-layer component assembly. Engineering adhesives used in AM must deliver high bonding performance, durability, and compatibility with a range of substrate materials and geometries. Their use is enabling greater design flexibility, improving production efficiency, and expanding the capabilities of additive manufacturing, making them an essential component in this evolving technology landscape.

Key Market Players

- 3M Co.
- Anabond
- Arkema S.A
- Ashland Global Specialty Chemicals Inc
- Beijing Comens
- Dow Corning Corporation
- Dow, Inc.
- DuPont de Nemours, Inc.
- Duratek
- Dymax Corporation

Report Scope:

In this report, the Global Engineering Adhesives Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- Engineering Adhesives Market, By Product:

- o Epoxies
- o Polyurethanes
- o Cyanoacrylates
- o Methacrylates
- o Others

- Engineering Adhesives Market, By Application:

- o Transportation
- o Construction
- o Electrical & Electronics
- o Energy

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o Others

- Engineering Adhesives Market, By Region:

o Asia Pacific

□ China

□ India

□ Japan

□ Australia

□ South Korea

o North America

□ United States

□ Canada

□ Mexico

o Europe

□ France

□ United Kingdom

□ Italy

□ Germany

□ Spain

o South America

□ Brazil

□ Argentina

□ Colombia

o Middle East & Africa

□ South Africa

□ Saudi Arabia

□ UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Engineering Adhesives Market.

Available Customizations:

Global Engineering Adhesives Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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