

# Global Encapsulants Market Size Study & Forecast, by Curing Type, Chemistry, End-Use Industry and Regional Forecasts 2025–2035

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## Abstracts

In an era marked by dynamic innovation and intensifying demand for durable, high-performance materials, the Global Encapsulants Market has emerged as a pivotal player in safeguarding electronic components and enabling technological breakthroughs. Valued at approximately USD 4.36 billion in 2024, this market is forecast to experience a compelling compound annual growth rate (CAGR) of 8.42% from 2025 to 2035. Encapsulants—protective compounds formulated to insulate, shield, and enhance component longevity—have transcended conventional applications. They are now vital across high-value sectors like consumer electronics, renewable energy, medical devices, and electric vehicles, each of which demands precision-engineered protection against moisture, heat, corrosion, and mechanical stress.

The accelerating complexity of electronic circuits and miniaturized assemblies has ushered in a new wave of encapsulant formulations capable of offering enhanced thermal management, electrical insulation, and environmental resistance. The burgeoning electric mobility and renewable energy sectors, particularly solar and wind, are driving the demand for heat-curable and silicone-based encapsulants due to their performance under extreme conditions. Moreover, the rise of wearable healthcare technologies and remote monitoring devices has heightened the use of biocompatible and lightweight encapsulants in the medical field. The trend toward sustainability is further prompting R&D in bio-based and low-VOC encapsulant solutions, aligning innovation with environmental stewardship.

Regionally, North America continues to hold a dominant share of the encapsulants market, buoyed by early adoption of cutting-edge electronics and stringent performance standards in military and aerospace applications. The United States, in particular,

boasts a robust consumer electronics base and a strong pipeline of semiconductor innovation. Meanwhile, Asia Pacific is projected to experience the most rapid expansion during the forecast period, fueled by a booming electronics manufacturing industry in China, Taiwan, and South Korea, coupled with rising investments in automotive electronics and solar panel assembly lines. Europe also remains a key region, with a steady push from sustainable packaging mandates and increasing deployment of encapsulants in electric drivetrain applications.

Major market player included in this report are:

BASF SE

Chevron Phillips Chemical Company

Croda International Plc.

Halliburton Company

Impact Fluid Solutions

Aubin Group

Baker Hughes Company

Trican Well Service Ltd.

Schlumberger Limited

Chevron Phillips Chemical Company

M&D Industries Of Louisiana, Inc.

Henkel AG & Co. KGaA

Dow Inc.

Electrolube (HK Wentworth Group)

Parker Hannifin Corporation

## Global Encapsulants Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players.

The detailed segments and sub-segments of the market are explained below:

### By Curing Type:

Room Temperature

UV

Heat Temperature

By Chemistry:

Epoxy

Urethane

Silicone

By End-Use Industry:

Consumer Electronics

Medical

Energy and Power

Transportation

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

#### Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

#### Latin America

Brazil

Mexico

#### Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

## Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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