

# Global Low-Stress Encapsulation Adhesive 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 Low-Stress Encapsulation Adhesive market size was valued at US\$ 592 million in 2025 and is forecast to a readjusted size of US\$ 960 million by 2032 with a CAGR of 7.1% during review period.

Low-stress encapsulation adhesive is a functional electronic adhesive used for protecting the packaging of chips, power modules, sensors, optoelectronic devices, and printed circuit board assemblies. It typically uses low-modulus, low curing shrinkage, low thermal expansion, or gel-forming formulations to mitigate thermomechanical stress between chips, substrates, solder joints, wire bonds, and housings. The overall gross margin is approximately 45%.

The demand for low-stress encapsulation adhesives primarily comes from reliability upgrades in semiconductor packaging and automotive electronics. As chip sizes increase, substrates become thinner, heterogeneous integration advances, and power devices operate at higher temperatures, thermal expansion mismatch between materials is more likely to translate into warpage, interfacial cracking, and solder joint fatigue. As a result, customers are increasingly willing to pay a premium for specialty adhesives with low modulus, low shrinkage, low ionic contamination, and controllable flow properties.

On the supply side, competitive focus is shifting from single bond strength to a comprehensive balance of formulations. Epoxy systems still dominate due to their strength, heat resistance, and process window advantages; silicone and gel systems are more prominent in stress buffering, thermal cycling, and power modules; UV-curable

and dual-curing systems are suitable for high-speed dispensing and local encapsulation. The main barriers for leading companies lie in customer qualification cycles, failure databases, batch-to-batch consistency, and coordination with dispensing equipment and packaging processes.

Future growth will be concentrated in advanced packaging, automotive-grade power modules, sensor modules, optoelectronic devices, and high-reliability PCB protection. Domestic manufacturers have opportunities to substitute imports in mid-to-high-end potting compounds, underfills, and thermally conductive low-stress adhesives. However, they still need continuous accumulation in low-warpage, low-ionic-content materials and long-term reliability data for advanced packaging applications.

This report is a detailed and comprehensive analysis for global Low-Stress Encapsulation Adhesive 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 Low-Stress Encapsulation Adhesive market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Low-Stress Encapsulation Adhesive market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Low-Stress Encapsulation Adhesive market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Low-Stress Encapsulation Adhesive market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 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 Low-Stress Encapsulation Adhesive

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 Low-Stress Encapsulation Adhesive 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, Dow, Shin-Etsu Chemical, Resonac, NAMICS, Panasonic Industry, Nagase ChemteX, Ajinomoto Fine-Techno, DELO, Panacol, etc.

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

## Market Segmentation

Low-Stress Encapsulation Adhesive 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

Epoxy-Based Low-Stress Encapsulation Adhesive

Silicone Low-Stress Encapsulation Adhesive

Urethane Low-Stress Encapsulation Adhesive

Acrylate and UV-Curable Encapsulation Adhesive

Hybrid Low-Stress Encapsulation Adhesive

## Market segment by Cure Mechanism

Heat-Cured Adhesive

Room-Temperature Cured Adhesive

UV-Cured Adhesive

Moisture-Cured Adhesive

Dual-Cure Adhesive

## Market segment by Mechanical Profile

Low-Modulus Flexible Adhesive

Low-Shrinkage Rigid Adhesive

Low-CTE Low-Warpage Adhesive

Thermally Conductive Low-Stress Adhesive

Gel-Type Stress-Relief Adhesive

High-Reliability Toughened Adhesive

## Market segment by Encapsulation Format

Glob Top Encapsulation Adhesive

Dam-and-Fill Encapsulation Adhesive

Underfill Encapsulation Adhesive

Potting Encapsulation Adhesive

Edge Bonding Adhesive

## Lid and Housing Sealing Adhesive

### Market segment by Application

Semiconductor and Advanced Package

Power Electronics Module

Sensor and MEMS Module

Optoelectronic and LED Package

PCB Assembly Protection

Automotive and Industrial Electronics

### Major players covered

Henkel

Dow

Shin-Etsu Chemical

Resonac

NAMICS

Panasonic Industry

Nagase ChemteX

Ajinomoto Fine-Techno

DELO

Panacol

Dymax

Master Bond

Momentive

Parker Lord

Wacker

CHT

Elkem

ThreeBond

Pelnox

3M

MacDermid Alpha

Sika

Chengdu Guibao Technology

Zhijiang

Huitian New Materials

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 Low-Stress Encapsulation Adhesive product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Low-Stress Encapsulation Adhesive, with price, sales quantity, revenue, and global market share of Low-Stress Encapsulation Adhesive from 2021 to 2026.

Chapter 3, the Low-Stress Encapsulation Adhesive competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Low-Stress Encapsulation Adhesive 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 Low-Stress Encapsulation Adhesive 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 Low-Stress Encapsulation Adhesive.

Chapter 14 and 15, to describe Low-Stress Encapsulation Adhesive sales channel, distributors, customers, research findings and conclusion.



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