

Silicone Potting Compounds Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global silicone potting compounds market size reached US\$ 977 Million in 2021. Looking forward, IMARC Group expects the market to reach US\$ 1,312 Million by 2027, exhibiting a growth rate (CAGR) of 5.18% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

Silicone potting compounds are liquid materials used to fill electronic components or assemblies with solid compounds for protection against the surrounding environment. Thermosetting plastics, epoxy, polyurethane and silicon rubber gels are among the commonly used silicone potting compounds. These compounds, once applied, cured and hardened, encase the electronic components in a solid mass that provides a barrier against moisture, vibration, heat, contamination and physical shocks. They can be applied to power transformers, circuit boards, relays, amplifiers, coils and ferrite cores using manual or automated meter-mix-dispense (MMD) equipment. They also provide a wide operating temperature and hardness range and are widely used across various industries, including electronics, aerospace, automotive, energy, marine and solar power.

Global Silicone Potting Compounds Market Trends:

Significant growth in the electronics industry across the globe is one of the key factors creating a positive outlook for the market. Silicon potting compounds are widely used for coating industrial electronic components, such as capacitors, solenoids, industrial magnets, beam bonded components, microprocessors and memory devices. Moreover, the increasing demand for consumer electronics and miniaturized devices is providing a

thrust to the growth of the market. Thermally conductive potting compounds offer effective pathways to dissipate the heat from a heat-generating source to a metal enclosure in compact devices. In line with this, the widespread adoption of these composites in the aerospace industry for shock insulation and corrosion resistance is also contributing to the market growth. Additionally, various product innovations, such as the development of ultraviolet (UV)-cured silicone potting compounds, are acting as other growth-inducing factors. These compounds offer enhanced insulation properties, bond strength and lower energy consumption. Other factors, including rapid industrialization, along with extensive research and development (R&D) activities, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global silicone potting compounds market report, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on curing technique, application and end use industry.

Breakup by Curing Technique:

- UV Curing
- Thermal Curing
- Room Temperature Curing

Breakup by Application:

- Electricals
 - Capacitors
 - Transformers
 - Cable Joints
 - Industrial Magnets
 - Solenoids
 - Others
- Electronics
 - Surface Mount Packages
 - Beam Bonded Components
 - Memory Devices and Microprocessors
 - Others

Breakup by End Use Industry:

Consumer Electronics
Aerospace
Automotive
Energy and Power
Others

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Altana AG, CHT Germany GmbH, Dymax Corporation, Henkel AG & Co. KGaA, Hernon Manufacturing Inc, Master Bond Inc., MG Chemicals, Novagard Solutions, Parker-Hannifin Corp. and The Dow Chemical Company (Dow

Inc).

Key Questions Answered in This Report

1. What is the expected growth rate of the global silicone potting compounds market during 2022-2027?
2. What are the key factors driving the global silicone potting compounds market?
3. What has been the impact of COVID-19 on the global silicone potting compounds market?
4. What is the breakup of the global silicone potting compounds market based on the curing technique?
5. What is the breakup of the global silicone potting compounds market based on the application?
6. What are the key regions in the global silicone potting compounds market?
7. Who are the key players/companies in the global silicone potting compounds market?

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