

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, Herson 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?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL SILICONE POTTING COMPOUNDS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY CURING TECHNIQUE

- 6.1 UV Curing
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Thermal Curing
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Room Temperature Curing

- 6.3.1 Market Trends
- 6.3.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

- 7.1 Electricals
 - 7.1.1 Market Trends
 - 7.1.2 Key Segments
 - 7.1.2.1 Capacitors
 - 7.1.2.2 Transformers
 - 7.1.2.3 Cable Joints
 - 7.1.2.4 Industrial Magnets
 - 7.1.2.5 Solenoids
 - 7.1.2.6 Others
 - 7.1.3 Market Forecast
- 7.2 Electronics
 - 7.2.1 Market Trends
 - 7.2.2 Key Segments
 - 7.2.2.1 Surface Mount Packages
 - 7.2.2.2 Beam Bonded Components
 - 7.2.2.3 Memory Devices and Microprocessors
 - 7.2.2.4 Others
 - 7.2.3 Market Forecast

8 MARKET BREAKUP BY END USE INDUSTRY

- 8.1 Consumer Electronics
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Aerospace
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Automotive
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Energy and Power
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast
- 8.5 Others

8.5.1 Market Trends

8.5.2 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 North America

9.1.1 United States

9.1.1.1 Market Trends

9.1.1.2 Market Forecast

9.1.2 Canada

9.1.2.1 Market Trends

9.1.2.2 Market Forecast

9.2 Asia-Pacific

9.2.1 China

9.2.1.1 Market Trends

9.2.1.2 Market Forecast

9.2.2 Japan

9.2.2.1 Market Trends

9.2.2.2 Market Forecast

9.2.3 India

9.2.3.1 Market Trends

9.2.3.2 Market Forecast

9.2.4 South Korea

9.2.4.1 Market Trends

9.2.4.2 Market Forecast

9.2.5 Australia

9.2.5.1 Market Trends

9.2.5.2 Market Forecast

9.2.6 Indonesia

9.2.6.1 Market Trends

9.2.6.2 Market Forecast

9.2.7 Others

9.2.7.1 Market Trends

9.2.7.2 Market Forecast

9.3 Europe

9.3.1 Germany

9.3.1.1 Market Trends

9.3.1.2 Market Forecast

9.3.2 France

- 9.3.2.1 Market Trends
- 9.3.2.2 Market Forecast
- 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
- 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
- 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
- 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
- 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast

10 SWOT ANALYSIS

- 10.1 Overview
- 10.2 Strengths
- 10.3 Weaknesses
- 10.4 Opportunities
- 10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

- 12.1 Overview
- 12.2 Bargaining Power of Buyers
- 12.3 Bargaining Power of Suppliers
- 12.4 Degree of Competition
- 12.5 Threat of New Entrants
- 12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

- 14.1 Market Structure
- 14.2 Key Players
- 14.3 Profiles of Key Players
 - 14.3.1 Altana AG
 - 14.3.1.1 Company Overview
 - 14.3.1.2 Product Portfolio
 - 14.3.1.3 SWOT Analysis
 - 14.3.2 CHT Germany GmbH
 - 14.3.2.1 Company Overview
 - 14.3.2.2 Product Portfolio
 - 14.3.3 Dymax Corporation
 - 14.3.3.1 Company Overview
 - 14.3.3.2 Product Portfolio
 - 14.3.4 Henkel AG & Co. KGaA
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
 - 14.3.4.3 Financials
 - 14.3.4.4 SWOT Analysis
 - 14.3.5 Herson Manufacturing Inc
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.6 Master Bond Inc.
 - 14.3.6.1 Company Overview

- 14.3.6.2 Product Portfolio
- 14.3.7 MG Chemicals
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
- 14.3.8 Novagard Solutions
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
- 14.3.9 Parker-Hannifin Corp.
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
 - 14.3.9.3 Financials
 - 14.3.9.4 SWOT Analysis
- 14.3.10 The Dow Chemical Company (Dow Inc)
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global: Silicone Potting Compounds Market: Key Industry Highlights, 2021 and 2027

Table 2: Global: Silicone Potting Compounds Market Forecast: Breakup by Curing Technique (in Million US\$), 2022-2027

Table 3: Global: Silicone Potting Compounds Market Forecast: Breakup by Application (in Million US\$), 2022-2027

Table 4: Global: Silicone Potting Compounds Market Forecast: Breakup by End Use Industry (in Million US\$), 2022-2027

Table 5: Global: Silicone Potting Compounds Market Forecast: Breakup by Region (in Million US\$), 2022-2027

Table 6: Global: Silicone Potting Compounds Market: Competitive Structure

Table 7: Global: Silicone Potting Compounds Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Silicone Potting Compounds Market: Major Drivers and Challenges

Figure 2: Global: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016-2021

Figure 3: Global: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 4: Global: Silicone Potting Compounds Market: Breakup by Curing Technique (in %), 2021

Figure 5: Global: Silicone Potting Compounds Market: Breakup by Application (in %), 2021

Figure 6: Global: Silicone Potting Compounds Market: Breakup by End Use Industry (in %), 2021

Figure 7: Global: Silicone Potting Compounds Market: Breakup by Region (in %), 2021

Figure 8: Global: Silicone Potting Compounds (UV Curing) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 9: Global: Silicone Potting Compounds (UV Curing) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 10: Global: Silicone Potting Compounds (Thermal Curing) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 11: Global: Silicone Potting Compounds (Thermal Curing) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 12: Global: Silicone Potting Compounds (Room Temperature Curing) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 13: Global: Silicone Potting Compounds (Room Temperature Curing) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 14: Global: Silicone Potting Compounds (Electricals) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 15: Global: Silicone Potting Compounds (Electricals) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 16: Global: Silicone Potting Compounds (Electronics) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 17: Global: Silicone Potting Compounds (Electronics) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 18: Global: Silicone Potting Compounds (Consumer Electronics) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 19: Global: Silicone Potting Compounds (Consumer Electronics) Market

Forecast: Sales Value (in Million US\$), 2022-2027

Figure 20: Global: Silicone Potting Compounds (Aerospace) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 21: Global: Silicone Potting Compounds (Aerospace) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 22: Global: Silicone Potting Compounds (Automotive) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 23: Global: Silicone Potting Compounds (Automotive) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 24: Global: Silicone Potting Compounds (Energy and Power) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 25: Global: Silicone Potting Compounds (Energy and Power) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 26: Global: Silicone Potting Compounds (Other End Use Industries) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 27: Global: Silicone Potting Compounds (Other End Use Industries) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 28: North America: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 29: North America: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 30: United States: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 31: United States: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 32: Canada: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 33: Canada: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 34: Asia-Pacific: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 35: Asia-Pacific: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 36: China: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 37: China: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 38: Japan: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 39: Japan: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 40: India: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 41: India: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 42: South Korea: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 43: South Korea: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 44: Australia: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 45: Australia: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 46: Indonesia: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 47: Indonesia: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 48: Others: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 49: Others: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 50: Europe: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 51: Europe: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 52: Germany: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 53: Germany: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 54: France: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 55: France: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 56: United Kingdom: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 57: United Kingdom: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 58: Italy: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016

& 2021

Figure 59: Italy: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 60: Spain: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 61: Spain: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 62: Russia: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 63: Russia: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 64: Others: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 65: Others: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 66: Latin America: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 67: Latin America: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 68: Brazil: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 69: Brazil: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 70: Mexico: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 71: Mexico: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 72: Others: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 73: Others: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 74: Middle East and Africa: Silicone Potting Compounds Market: Sales Value (in Million US\$), 2016 & 2021

Figure 75: Middle East and Africa: Silicone Potting Compounds Market: Breakup by Country (in %), 2021

Figure 76: Middle East and Africa: Silicone Potting Compounds Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 77: Global: Silicone Potting Compounds Industry: SWOT Analysis

Figure 78: Global: Silicone Potting Compounds Industry: Value Chain Analysis

Figure 79: Global: Silicone Potting Compounds Industry: Porter's Five Forces Analysis

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