

Global Phenylene Silicone Rubber Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Phenylene Silicone Rubber market size was valued at US\$ 389 million in 2024 and is forecast to a readjusted size of USD 556 million by 2031 with a CAGR of 5.3% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Phenylene silicone rubber refers to a polydimethylsiloxane-methylvinylsiloxane-diphenylsiloxane copolymer containing phenylene in the main chain of the molecule, usually polymerized from bis(amine)diphenylsilane and p,p'-diphenol. It is a milky white or amber plastic with unique chemical and physical properties. Phenylene silicone rubber has an extremely high melting point, generally up to 300°C, and short-term heat resistance can even reach 600°C. It can remain stable after heating at 500°C for one hour, showing excellent high temperature resistance. Due to the introduction of phenylene groups, the radiation resistance of phenylene silicone rubber is significantly improved, and it can withstand radiation such as neutrons and gamma rays. Due to its excellent high temperature and radiation resistance, phenylene silicone rubber is widely used in the manufacture of coatings in spacecraft, as well as sealing materials and wires and cables in nuclear reactors and nuclear power plants.

This report is a detailed and comprehensive analysis for global Phenylene Silicone Rubber 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 Phenylene Silicone Rubber market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Phenylene Silicone Rubber market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Phenylene Silicone Rubber market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Phenylene Silicone Rubber market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2020-2025

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 Phenylene Silicone Rubber

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 Phenylene Silicone Rubber 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 3M, Chemours, Daikin, MingYi Silicone, Dow Chemical, Wacker Chemie, Shin-Etsu Chemical, Momentive Performance Materials, Bluestar, Hubei Blue Sky New Material, etc.

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

Market Segmentation

Phenylene Silicone Rubber market is split by Type and by Application. For the period

2020-2031, 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

Room Temperature Vulcanization

High Temperature Vulcanization

Market segment by Application

Aerospace

Electronics and Electrical Appliances

Military Industry

Others

Major players covered

3M

Chemours

Daikin

MingYi Silicone

Dow Chemical

Wacker Chemie

Shin-Etsu Chemical

Momentive Performance Materials

Bluestar

Hubei Blue Sky New Material

Chengdu Seefar Rubber Plastics

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 Phenylene Silicone Rubber product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Phenylene Silicone Rubber, with price, sales quantity, revenue, and global market share of Phenylene Silicone Rubber from 2020 to 2025.

Chapter 3, the Phenylene Silicone Rubber competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Phenylene Silicone Rubber breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Phenylene Silicone Rubber market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Phenylene Silicone Rubber.

Chapter 14 and 15, to describe Phenylene Silicone Rubber sales channel, distributors, customers, research findings and conclusion.

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