

Global Weather-resistant Silicone Sealant for Photovoltaic Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Weather-resistant Silicone Sealant for Photovoltaic market size is expected to reach \$ 907 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of Weather-resistant Silicone Sealant for Photovoltaic is estimated at approximately 95.8 thousand tons, with an average global market price of around USD 5.6/kg. The gross margin of major manufacturers in the industry is generally estimated at about 25%?38%.

Weather-resistant Silicone Sealant for Photovoltaic is a silicone-based sealing material specially used for sealing, bonding, and weather-resistant protection in photovoltaic modules and photovoltaic systems. It is typically formulated with polysiloxane as the base polymer, together with crosslinking agents, fillers, catalysts, adhesion promoters, and functional additives. Compared with conventional architectural silicone weatherproof sealants, Weather-resistant Silicone Sealant for Photovoltaic places greater emphasis on compatibility with glass, aluminum frames, backsheets, junction box plastics, and encapsulation films, while also requiring excellent UV resistance, damp-heat resistance, thermal cycling resistance, aging resistance, waterproof sealing performance, and electrical insulation to meet the long-term outdoor operating requirements of photovoltaic modules.

The upstream materials of Weather-resistant Silicone Sealant for Photovoltaic mainly include 107 silicone rubber, silicone oil, fumed silica, calcium carbonate, crosslinking agents, coupling agents, catalysts, pigments and fillers, and packaging materials. In the midstream, products with different curing systems, component forms, and application

properties are manufactured through batching, mixing, vacuum defoaming, filling, and testing processes. Downstream applications are mainly concentrated in photovoltaic modules, PV junction boxes, BIPV systems, and power plant operation and maintenance, where the product is used for module frame sealing, laminate edge sealing, junction box bonding and sealing, BIPV joint sealing, and later-stage repair and maintenance of PV power plants. With the growth of photovoltaic module output, the increasing adoption of double-glass modules and BIPV applications, and higher requirements for long-term reliability of PV power plants, the importance of Weather-resistant Silicone Sealant for Photovoltaic in module manufacturing and outdoor sealing protection will continue to increase.

This report studies the global Weather-resistant Silicone Sealant for Photovoltaic production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Weather-resistant Silicone Sealant for Photovoltaic and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Weather-resistant Silicone Sealant for Photovoltaic that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Weather-resistant Silicone Sealant for Photovoltaic total production and demand, 2021-2032, (Tons)

Global Weather-resistant Silicone Sealant for Photovoltaic total production value, 2021-2032, (USD Million)

Global Weather-resistant Silicone Sealant for Photovoltaic production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Weather-resistant Silicone Sealant for Photovoltaic consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Weather-resistant Silicone Sealant for Photovoltaic domestic production, consumption, key domestic manufacturers and share

Global Weather-resistant Silicone Sealant for Photovoltaic production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Weather-resistant Silicone Sealant for Photovoltaic production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Weather-resistant Silicone Sealant for Photovoltaic production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Weather-resistant Silicone Sealant for Photovoltaic market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Dow, Wacker Chemie, Novagard, Shin-Etsu Polymer, Guangzhou Baiyun Technology, Hangzhou Zhijiang Silicone Chemicals, Guangzhou Jointas Chemical, Hubei Huitian New Materials, Kejian Polymer Materials (Shanghai), Shanghai Siway Building Material, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Weather-resistant Silicone Sealant for Photovoltaic market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Weather-resistant Silicone Sealant for Photovoltaic Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Weather-resistant Silicone Sealant for Photovoltaic Market, Segmentation by Type:

Alcohol-cure Type

Oxime-cure Type

Global Weather-resistant Silicone Sealant for Photovoltaic Market, Segmentation by Component Form:

One-component

Two-component

Global Weather-resistant Silicone Sealant for Photovoltaic Market, Segmentation by Application:

Photovoltaic Module

PV Junction Box

BIPV System

Power Plant O&M

Other

Companies Profiled:

Dow

Wacker Chemie

Novagard

Shin-Etsu Polymer

Guangzhou Baiyun Technology

Hangzhou Zhijiang Silicone Chemicals

Guangzhou Jointas Chemical

Hubei Huitian New Materials

Kejian Polymer Materials (Shanghai)

Shanghai Siway Building Material

Chengdu Guibao Science & Technology

Yangzhou Chenhua New Materials

Key Questions Answered:

1. How big is the global Weather-resistant Silicone Sealant for Photovoltaic market?
2. What is the demand of the global Weather-resistant Silicone Sealant for Photovoltaic market?
3. What is the year over year growth of the global Weather-resistant Silicone Sealant for Photovoltaic market?
4. What is the production and production value of the global Weather-resistant Silicone Sealant for Photovoltaic market?
5. Who are the key producers in the global Weather-resistant Silicone Sealant for Photovoltaic market?
6. What are the growth factors driving the market demand?

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