

Global Fiber Optic Array Encapsulation Adhesive Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fiber Optic Array Encapsulation Adhesive market size is expected to reach \$ 3011 million by 2032, rising at a market growth of 8.5% CAGR during the forecast period (2026-2032).

Fiber optic array encapsulation adhesives are a type of high-performance optical adhesive specifically designed for encapsulating precision optical communication devices. They are primarily used to fix multiple optical fibers onto a V-groove substrate and achieve high-precision coupling with chips or optical devices, while also ensuring optical transparency, low shrinkage, and high reliability to guarantee low-loss optical signal transmission and long-term stability. Global sales in 2025 were approximately 92,000 tons, with an average price of approximately US\$18,000 per ton and a capacity utilization rate of approximately 78%. Upstream companies mainly come from the fields of optical resin monomers, epoxy and acrylic materials, photoinitiators, and fine chemicals. Midstream companies include optical adhesive manufacturers and optical communication device encapsulation manufacturers. Downstream companies are concentrated in optical module manufacturers, data center equipment manufacturers, communication system manufacturers, and silicon photonics chip companies. The industry's gross profit margin is approximately 41%, with raw materials accounting for about 45% of the product cost structure, of which resins and functional additives are the core costs. Manufacturing and formulation processes account for about 20%, while quality testing and reliability... Sexual testing accounts for approximately 10%, equipment depreciation and labor costs account for approximately 15%, and packaging and transportation account for approximately 10%. On the demand side, the downstream demand list includes 400G and 800G optical modules, CPO optoelectronic co-packaging, PLC splitters, AWG devices, optical switching modules, and fiber optic sensing systems. The downstream customer list includes cloud computing vendors,

telecom operators, switch equipment manufacturers, optical module manufacturers, and research institutions. In terms of business opportunities, the company benefits from policy-driven growth in the construction of new information infrastructure, computing power networks, and high-speed communication networks. On the technology innovation side, it benefits from the increased demand for high-performance adhesives brought about by the rapid development of silicon photonics integration, CPO architecture, and high-density multi-channel optical interconnect technology. On the consumer demand side, the company benefits from the increasing requirements for high bandwidth, low power consumption, and high reliability brought about by the explosion of AI computing power. This drives the upgrade of adhesives for fiber optic array packaging towards low stress, high light transmittance, and high stability, and accelerates domestic substitution and high-end penetration.

This report studies the global Fiber Optic Array Encapsulation Adhesive production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fiber Optic Array Encapsulation Adhesive 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 Fiber Optic Array Encapsulation Adhesive that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fiber Optic Array Encapsulation Adhesive total production and demand, 2021-2032, (Tons)

Global Fiber Optic Array Encapsulation Adhesive total production value, 2021-2032, (USD Million)

Global Fiber Optic Array Encapsulation Adhesive production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Fiber Optic Array Encapsulation Adhesive consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Fiber Optic Array Encapsulation Adhesive domestic production, consumption, key domestic manufacturers and share

Global Fiber Optic Array Encapsulation Adhesive production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Fiber Optic Array Encapsulation Adhesive production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Fiber Optic Array Encapsulation Adhesive production by Application, production,

value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Fiber Optic Array Encapsulation Adhesive 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 CRCBOND CHEMICALS, NTT, Meridian, Masterbond, EMIUV, Dongguan Xietian, Nanomse, 3M (US), Henkel (DE), Dymax (US), 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 Fiber Optic Array Encapsulation Adhesive market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Fiber Optic Array Encapsulation Adhesive Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fiber Optic Array Encapsulation Adhesive Market, Segmentation by Type:

Head Adhesive

Tail Adhesive

Global Fiber Optic Array Encapsulation Adhesive Market, Segmentation by Coefficient of Thermal Expansion:

<80 ppm/°C

80-100 ppm/°C

>100 ppm/°C

Global Fiber Optic Array Encapsulation Adhesive Market, Segmentation by Tg Glass Transition Temperature <°C:

<150

>150

Global Fiber Optic Array Encapsulation Adhesive Market, Segmentation by Application:

Optical Communication

Medical

Automotive Electronics

Consumer Electronics

Aerospace and Defense

Scientific Research

Other

Companies Profiled:

CRCBOND CHEMICALS

NTT

Meridian

Masterbond

EMIUV

Dongguan Xietian

Nanomse

3M (US)

Henkel (DE)

Dymax (US)

Heraeus (DE)

Key Questions Answered:

1. How big is the global Fiber Optic Array Encapsulation Adhesive market?
2. What is the demand of the global Fiber Optic Array Encapsulation Adhesive market?
3. What is the year over year growth of the global Fiber Optic Array Encapsulation Adhesive market?
4. What is the production and production value of the global Fiber Optic Array Encapsulation Adhesive market?
5. Who are the key producers in the global Fiber Optic Array Encapsulation Adhesive

market?

6. What are the growth factors driving the market demand?

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