

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

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Abstracts

The global Fiber Optic Encapsulation Adhesive market size is expected to reach \$ 10222 million by 2032, rising at a market growth of 7.5% CAGR during the forecast period (2026-2032).

Optical fiber encapsulation adhesives are high-performance functional adhesives used for fixing optical fibers, optical coupling, and long-term reliability protection within optical communication devices. They typically possess low shrinkage, low coefficient of thermal expansion, high light transmittance, resistance to high and low temperature cycling, and anti-aging properties. They are widely used in optical modules, optical devices, and silicon photonics packaging to achieve high-precision alignment and bonding between optical fibers and chips, lenses, and V-groove substrates. Global sales in 2025 were approximately 280,000 tons, with an average unit price of approximately US\$22,000 per ton and a capacity utilization rate of approximately 81%. Upstream companies mainly consist of suppliers of epoxy resins, acrylic resins, siloxane materials, photoinitiators, and fine chemical raw materials. Midstream companies include optical adhesive formulation manufacturers and optical communication encapsulation material manufacturers. Downstream companies are concentrated in optical module manufacturers, data center equipment manufacturers, communication equipment manufacturers, and silicon photonics chip companies. The overall industry gross profit margin is approximately 43%, with raw materials accounting for approximately 48% of the product cost structure, mainly functional resins and optical additives. Formulation research and development and process manufacturing account for approximately 18%, and quality inspection... Testing and reliability verification account for approximately 12%, equipment depreciation and labor costs account for approximately 14%, and packaging, transportation, and other expenses account for approximately 8%. On the demand side, the downstream demand list includes 400G and 800G high-speed optical

modules, CPO co-packaged optical engines, silicon photonics chip packaging, fiber array units, collimators and filter components, and photodetector packaging modules. The downstream customer list includes cloud computing vendors, telecom operators, switch equipment manufacturers, optical module manufacturers, and scientific research and military optoelectronic units. In terms of business opportunities, the company benefits from policy-driven developments such as new infrastructure construction, computing network upgrades, and the high-end development of the information and communication industry. Driven by technological innovation, it benefits from the rapid evolution of silicon photonics integration, CPO architecture, high-density multi-channel optical interconnects, and low-loss optical packaging technologies. Changes in consumer demands are reflected in the increased bandwidth, reduced power consumption, and enhanced reliability requirements brought about by the explosion of artificial intelligence computing power. This drives the continuous upgrading of optical fiber encapsulating adhesives towards low stress, high temperature resistance, high-precision alignment, and long-term stability, and accelerates the substitution of high-end domestic products.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Fiber Optic 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 3M (US), Henkel (DE), Dymax (US), Heraeus (DE), Epoxy Technology (US), Toyochem (JP), Polytec PT (DE), Hoenle (DE), Nagase (JP), NTT Advanced Technology (JP), 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 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 Encapsulation Adhesive Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fiber Optic Encapsulation Adhesive Market, Segmentation by Type:

Surface Dry Type

Non Surface Dry Type

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

<80 ppm Per °C

80-100 ppm Per °C

>100 ppm Per °C

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

<150°C

>150°C

Global Fiber Optic Encapsulation Adhesive Market, Segmentation by Application:

PLC Packaging

Semiconductor Laser Packaging

Collimator Lens Bonding

Filter Bonding

Photodetector Lens and Fiber Bonding

Other

Companies Profiled:

3M (US)

Henkel (DE)

Dymax (US)

Heraeus (DE)

Epoxy Technology (US)

Toyochem (JP)

Polytec PT (DE)

Hoenle (DE)

Nagase (JP)

NTT Advanced Technology (JP)

Shenzhen Juxinyuan New Materials (CN)

Yantai Hightite Electronic Technology (CN)

Shenzhen Holeo New Material Technology (CN)

Vigorue Polymer Materials (Suzhou) (CN)

Nanomse (Tianjin) New Materials (CN)

Dongguan Xietian Adhesive Technology (CN)

Shanghai Yuntong Electronic Technology (CN)

Shenzhen Hebon New Material Technology (CN)

Key Questions Answered:

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

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