

Global Fluorene Epoxy Resin Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fluorene Epoxy Resin market size is expected to reach \$ 92.29 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

Fluorene-based epoxy resins are high-performance thermosetting epoxy resins or epoxy-functional monomers that incorporate a fluorene, bisphenol fluorene, or 9,9-bisarylfuorene cardo skeleton into the molecular structure. These materials are typically prepared from bisphenol fluorene or substituted fluorene-based phenolic compounds through glycidylation reactions with epichlorohydrin, and may be supplied as crystalline epoxy monomers, oligomeric resins, modified epoxy resins, or formulation-ready resin intermediates. The bulky and rigid fluorene cardo structure provides high aromatic content, high refractive index, heat resistance, dimensional stability, low moisture absorption, adhesion, and optical performance. Fluorene-based epoxy resins are mainly used in optical encapsulation, LED packaging, electronic adhesives, high-refractive-index optical coatings, heat-resistant coatings, PCB/CCL laminate resins, composite matrices, electrical insulation materials, and high-performance resin modification.

Based on our research, fluorene-based epoxy resins are a high-value specialty segment within the broader epoxy resin market, positioned between optical materials, electronic adhesives, heat-resistant coatings, and high-performance resin modification. Their value is derived from the rigid fluorene/cardo skeleton, high aromatic content, high refractive index potential, dimensional stability, low moisture absorption, and thermal resistance, rather than from commodity epoxy resin capacity. Osaka Gas Chemicals describes its OGSOL fluorene-based epoxy resins as having a three-dimensional bulky cardo structure and highlights combinations such as heat resistance with transparency and heat resistance with flexibility. This supports the view that fluorene-based epoxy

resins are functional performance resins, not direct replacements for low-cost bisphenol A or bisphenol F epoxy resins.

From an application perspective, fluorene-based epoxy resins are mainly used in high-refractive-index optical materials, LED and optical encapsulation, electronic adhesives, sealing materials, heat-resistant coatings, PCB/PWB/CCL laminate impregnation resins, and high-performance resin modification. Osaka Gas Chemicals' OGSOL product information identifies applications in electronic material adhesives, sealing materials, coatings, printed wiring boards, copper-clad laminates, and laminate impregnation resins. In parallel, reagent and material platforms such as TCI and FUJIFILM Wako list 9,9-Bis(4-glycidyoxyphenyl)fluorene, CAS 47758-37-2, which indicates that DGPF/DGBPEF is one of the most identifiable epoxy-functional bisphenol fluorene structures in this segment.

From a supply perspective, the number of highly visible commercial fluorene-based epoxy resin producers is limited. Osaka Gas Chemicals is the clearest global core supplier based on public product evidence, while companies such as JFE Chemical are better viewed as upstream fluorene derivative suppliers or broader fluorene-based functional material players unless direct fluorene epoxy resin products are verified. JFE Chemical states that fluorene derivatives are used in optical functional materials, functional resins, and OLED materials, but this should not automatically be interpreted as proof of fluorene-based epoxy resin production. In China, the supply chain is more visible around bisphenol fluorene, epoxy-functional bisphenol fluorene, and substituted fluorene diglycidyl ether intermediates, but production scale, batch stability, low-chlorine and low-ionic specifications, and customer qualification still require verification.

From a technology and competition standpoint, future growth will be driven less by broad volume expansion and more by differentiated performance requirements such as high refractive index, heat-resistant transparency, low yellowing, low moisture uptake, low stress, low chlorine and ionic impurities, and formulation compatibility. Downstream customers will evaluate not only whether a resin contains a fluorene skeleton, but also epoxy equivalent weight, melting point, solubility, color, hydrolyzable chlorine, cure shrinkage, refractive index, hot-wet reliability, and compatibility with curing agents, fillers, and other resins. Competitive suppliers will therefore need stable synthesis, purification, application data, formulation support, and long-term supply capability. For Chinese suppliers, the key opportunity is to move from fluorene intermediate supply toward validated use in optical encapsulation, electronic adhesives, CCL materials, and high-performance coatings.

This report studies the global Fluorene Epoxy Resin production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fluorene Epoxy Resin 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 Fluorene Epoxy Resin that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fluorene Epoxy Resin total production and demand, 2021-2032, (Tons)

Global Fluorene Epoxy Resin total production value, 2021-2032, (USD Million)

Global Fluorene Epoxy Resin production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Fluorene Epoxy Resin consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Fluorene Epoxy Resin domestic production, consumption, key domestic manufacturers and share

Global Fluorene Epoxy Resin production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Fluorene Epoxy Resin production by Product Chemistry, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Fluorene Epoxy Resin production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Fluorene Epoxy Resin 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 Osaka Gas Chemicals Co., Ltd., Sinocoalchem, Jiangsu Ever Galaxy Chemical Co., Ltd., Yida Chemical, Jinan Langhua Chemical Co., Ltd., JFE Chemical Corporation, 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 Fluorene Epoxy Resin 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 Product Chemistry, 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 Fluorene Epoxy Resin Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fluorene Epoxy Resin Market, Segmentation by Product Chemistry:

Bisphenol Fluorene Diglycidyl Ether

Substituted Bisphenol Fluorene Epoxy

Oligomeric Fluorene Epoxy Resin

Modified Fluorene Epoxy Resin

Global Fluorene Epoxy Resin Market, Segmentation by Fluorene Building Block:

Bisphenol Fluorene-based Epoxy

Substituted Bisphenol Fluorene Epoxy

Fluorene-containing Polyphenol Epoxy

Cardo-type Oligomeric Epoxy

Global Fluorene Epoxy Resin Market, Segmentation by Epoxy Equivalent Weight:

Low EEW Monomeric Fluorene Epoxy

Medium EEW Fluorene Epoxy Resin

High EEW Oligomeric Fluorene Epoxy

Global Fluorene Epoxy Resin Market, Segmentation by Application:

Optical Encapsulation

Electronic Adhesives

High-refractive-index Coatings

PCB / CCL Laminate Resin

Companies Profiled:

Osaka Gas Chemicals Co., Ltd.

Sinocoalchem

Jiangsu Ever Galaxy Chemical Co., Ltd.

Yida Chemical

Jinan Langhua Chemical Co., Ltd.

JFE Chemical Corporation

Key Questions Answered:

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

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