

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

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Abstracts

The global Fluorene-based Epoxy Resin market size is expected to reach \$ 156 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

Bisphenol fluorene epoxy resins are high-performance epoxy monomers or thermosetting resins containing a bisphenol fluorene-derived cardo structure and epoxy reactive groups. The bulky fluorene cardo structure provides aromatic rigidity, heat resistance, low moisture uptake, dimensional stability, optical transparency and electrical reliability. These resins are mainly used in electronic adhesives, encapsulation materials, PCB/PWB/CCL laminates, optical transparent resins, high-refractive-index coatings, heat-resistant adhesives, composite matrices and specialty coatings.

Bisphenol fluorene epoxy resin is a class of high-performance epoxy resins built around a fluorene cardo structure, with representative products including DGPF and OGSOL-series fluorene-based epoxy resins. Unlike conventional bisphenol A or bisphenol F epoxy resins, the bulky cardo structure in these materials improves aromatic rigidity, heat resistance, dimensional stability, optical transparency and moisture-heat reliability. As a result, bisphenol fluorene epoxy resins are mainly positioned for high-value applications such as electronic encapsulation, electronic material adhesives, PCB/PWB/CCL laminates, transparent optical resins, high-refractive-index coatings, heat-resistant adhesives and specialty composite materials.

From the supply perspective, the global bisphenol fluorene epoxy resin market has relatively high technical and customer-qualification barriers. Osaka Gas Chemicals is the clearest industrial producer of fluorene-based epoxy resins, with the OGSOL series covering powder-type, high-solubility, adhesion-enhanced and flexible grades. China-

based suppliers are gradually improving their position in bisphenol fluorene and epoxidized fluorene derivatives, with Xinno Lixing having producing ability for DGPF / epoxy bisphenol fluorene. TCI, FUJIFILM Wako, Dakenchem, Watson/Warshel and Alfa Chemistry are more relevant as reagent-grade, custom synthesis or catalog suppliers. In this market, industrial resin grade development capability, low-chlorine control, batch consistency, electronic-material customer qualification and long-term supply capability are the key factors that distinguish core producers from general suppliers.

Demand growth is mainly supported by the performance upgrade of electronic materials and the functionalization of optical materials. Electronic encapsulation and CCL customers focus on low chlorine, low ionic impurities, low moisture uptake, low warpage, moisture-heat reliability and dimensional stability. Optical material customers prioritize transparency, low yellowing, refractive index, heat resistance and film-forming performance. High-performance adhesive and coating customers place greater emphasis on heat resistance, adhesion strength, processability and long-term reliability. Future market growth is expected to be driven by advanced packaging, power electronics, low-warpage laminates, high-refractive-index transparent resins, display materials, optical coatings and China-based substitution in the electronic materials supply chain.

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

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

Highlights and key features of the study

Global Fluorene-based Epoxy Resin total production and demand, 2021-2032, (kg)
Global Fluorene-based Epoxy Resin total production value, 2021-2032, (USD Million)
Global Fluorene-based Epoxy Resin production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)
Global Fluorene-based Epoxy Resin consumption by region & country, CAGR, 2021-2032 & (kg)
U.S. VS China: Fluorene-based Epoxy Resin domestic production, consumption, key domestic manufacturers and share

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

Global Fluorene-based Epoxy Resin production by Epoxy Equivalent Weight, production, value, CAGR, 2021-2032, (USD Million) & (kg)

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

This report profiles key players in the global Fluorene-based 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., Xinno Lixing (Huanghua) Group Co., Ltd., Tokyo Chemical Industry Co., Ltd., 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-based Epoxy Resin market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) by manufacturer, by Epoxy Equivalent Weight, 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-based Epoxy Resin Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Low EEW Monomeric Grade

Medium EEW Resin Grade

High EEW Oligomeric Grade

Flexible High EEW Grade

Global Fluorene-based Epoxy Resin Market, Segmentation by Curing System:

Anhydride-cured Systems

Phenolic / Novolac-cured Systems

Amine / Imidazole-cured Systems

Latent-cured One-component Systems

Thiol / Mercaptan-cured Systems

Global Fluorene-based Epoxy Resin Market, Segmentation by Processing Method:

Solution Coating / Casting

Melt Blending / Hot-melt Processing

Lamination / Impregnation

Dispensing / Adhesive Formulation

Global Fluorene-based Epoxy Resin Market, Segmentation by Application:

Electronics and Semiconductor

Optical and Display Materials

Industrial Coatings and Adhesives

Composites and Aerospace Materials

Companies Profiled:

Osaka Gas Chemicals Co., Ltd.

Xinno Lixing (Huanghua) Group Co., Ltd.

Tokyo Chemical Industry Co., Ltd.

Key Questions Answered:

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

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