

Global Fluorene-based Epoxy Resin Market Growth 2026-2032

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Abstracts

The global Fluorene-based Epoxy Resin market size is predicted to grow from US\$ 90.00 million in 2025 to US\$ 152 million in 2032; it is expected to grow at a CAGR of 7.8% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Fluorene-based Epoxy Resin Industry Forecast" looks at past sales and reviews total world Fluorene-based Epoxy Resin sales in 2025, providing a comprehensive analysis by region and market sector of projected Fluorene-based Epoxy Resin sales for 2026 through 2032. With Fluorene-based Epoxy Resin sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Fluorene-based Epoxy Resin industry.

This Insight Report provides a comprehensive analysis of the global Fluorene-based Epoxy Resin landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Fluorene-based Epoxy Resin portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Fluorene-based Epoxy Resin market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Fluorene-based Epoxy Resin and breaks down the forecast by Epoxy Equivalent Weight, by Application, geography, and market size to

highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Fluorene-based Epoxy Resin.

This report presents a comprehensive overview, market shares, and growth opportunities of Fluorene-based Epoxy Resin market by product type, application, key manufacturers and key regions and countries.

Segmentation by Epoxy Equivalent Weight:

Low EEW Monomeric Grade

Medium EEW Resin Grade

High EEW Oligomeric Grade

Flexible High EEW Grade

Segmentation by Curing System:

Anhydride-cured Systems

Phenolic / Novolac-cured Systems

Amine / Imidazole-cured Systems

Latent-cured One-component Systems

Thiol / Mercaptan-cured Systems

Segmentation by Processing Method:

Solution Coating / Casting

Melt Blending / Hot-melt Processing

Lamination / Impregnation

Dispensing / Adhesive Formulation

Segmentation by Application:

Electronics and Semiconductor

Optical and Display Materials

Industrial Coatings and Adhesives

Composites and Aerospace Materials

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Osaka Gas Chemicals Co., Ltd.

Xinno Lixing (Huanghua) Group Co., Ltd.

Tokyo Chemical Industry Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Fluorene-based Epoxy Resin market?

What factors are driving Fluorene-based Epoxy Resin market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Fluorene-based Epoxy Resin market opportunities vary by end market size?

How does Fluorene-based Epoxy Resin break out by Epoxy Equivalent Weight, by Application?

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