

# **Flame Retardant Market for Engineering Resins Market by Type (Brominated, Phosphorous), Application (Polyamide, ABS, PET & PBT, PC/ABS Blends), End-use Industries (Electrical & Electronics, Automotive & Transportation) & Region - Global Forecast to 2029**

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## **Abstracts**

The flame retardant market for engineering resins is poised for significant growth, with a projected value of USD 2.9 billion by 2029, exhibiting a robust CAGR of 7.6% from its 2024 value of USD 2.0 billion. The flame retardant market for engineering resins is witnessing substantial growth, primarily driven by two key factors. The superior properties of flame retardant market for engineering resins stand as an ideal driver driving the growth and evolution of the flame retardant for engineering resins. Innovations in electrical devices, application methods, and materials have significantly enhanced the performance, functionality, and flexibility of flame retardant for engineering resins. These combined forces are propelling the demand for flame retardant for engineering resins in various end-use industries.

“Brominated flame retardants segment was the largest type of flame retardant market for engineering resins in 2023, in terms of value.”

Brominated flame retardants emerged as the largest type in the flame retardant market for engineering resins market due to their established efficacy and wide availability. Despite growing environmental concerns, their proven ability to effectively reduce flammability and their relatively lower cost compared to alternatives sustained their dominance. Additionally, their compatibility with various engineering resin formulations and stringent industry standards further solidified their leading position in the market

segment.

“Polyamide application was the largest segment in flame retardant market for engineering resins in 2023, in terms of value.”

The Polyamide segment emerged as the largest application in the flame retardant market for engineering resins market, driven by various key factors. The polyamide segment in the flame retardant market for engineering resins market in 2023 was its compatibility with a wide range of flame retardant additives. Polyamide resins offer flexibility in formulation, allowing manufacturers to incorporate various flame retardant agents while maintaining desirable mechanical and thermal properties. This versatility made Polyamide-based engineering resins a preferred choice for applications where both flame resistance and material performance are critical, further solidifying its position as the largest application in the market.

“Electrical and electronics segment was the largest end-use industry of flame retardant market for engineering resins in 2023, in terms of value.”

The electrical and electronics sector asserted its dominance as the leading end-user industry in the flame retardant market for engineering resins market, propelled by key drivers. Firstly, the ubiquitous integration of electronic components across various sectors necessitated flame retardant materials for enhanced safety and regulatory compliance. Secondly, the global surge in demand for electronic devices, coupled with technological advancements, fueled the requirement for engineering resins with superior fire resistance properties. Moreover, stringent industry standards and regulations mandated the incorporation of flame retardant additives in engineering resin formulations, solidifying its position at the forefront of this market segment.

“Asia Pacific is estimated to be the fastest growing segment of flame retardant market for engineering resins during forecasted year from 2024 to 2029, in terms of value.”

Asia Pacific is anticipated to emerge as the swiftest-growing region in the flame retardant market for engineering resins market, propelled by several pivotal factors. Firstly, the region's expanding automotive, electronics, and construction sectors are driving escalated demand for flame retardant materials integrated into engineering resins. Secondly, robust industrialization and urbanization endeavors across Asia Pacific nations are fostering infrastructure development, thereby intensifying the requirement for flame retardant engineering resins in construction applications.

In the meticulous process of determining and verifying market sizes for multiple segments and subsegments, extensive primary interviews were conducted. A breakdown of the profiles of the primary interviewees are as follows:

By Company Type: Tier 1 - 69%, Tier 2 - 23%, and Tier 3 - 8%

By Designation: - Director Level - 27%, C-Level - 25%, and Others - 48%

By Region: North America - 32%, Europe - 28%, Asia Pacific - 21%, South America - 12%, and Middle East & Africa - 7%

The key market players illustrated in the report include Albemarle Corporation (US), LANXESS AG (Germany), BASF SE (Germany), Israel Chemicals Ltd. (Israel), Huber Engineered Materials (US), Clariant AG (Switzerland), DuPont De Nemours, Inc. (US), Nabaltec AG (Germany), Italmatch Chemicals S.p.A (Italy), RTP Company (US), and Chemische Fabrik Budenheim KG (Germany).

## Research Coverage

This report segments the market for flame retardant market for engineering resins based on type, application, end-use industry, and region, and provides estimations for the overall value (USD Million) of the market across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, new product launches, expansions, and mergers & acquisition associated with the market for flame retardant for engineering resins.

## Reasons to buy this report

This research report is focused on various levels of analysis — industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view on the competitive landscape; emerging and high-growth segments of the flame retardant for engineering resins; high-growth regions; and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (global rise in fire incidents, stringent fire safety

regulations, increasing demand for engineering plastics in various industries), restraints (high loading levels of mineral-based flame retardants, harmful chemicals used in flame retardants, fluctuation in raw materials cost), opportunities (introduction of more effective synergist compounds, rising demand in consumer electronics), and challenges (emphasis on environmental protection, health risks associated with flame retardant chemicals).

**Market Penetration:** Comprehensive information on flame retardant market for engineering resins offered by top players in the global flame retardant market for engineering resins

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, and new product launches in the flame retardant market for engineering resins

**Market Development:** Comprehensive information about lucrative emerging markets — the report analyzes the markets for flame retardant market for engineering resins across regions

**Market Diversification:** Exhaustive information about new products, untapped regions, and recent developments in the global flame retardant market for engineering resins

**Competitive Assessment:** In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the flame retardant market for engineering resins

**Impact of recession on flame retardant market for engineering resins**

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