

# Flame Retardant Resin in the Global Transportation Composites Market Report: Trends, Forecast and Competitive Analysis [2024-2030]

<https://marketpublishers.com/r/FE33AEE005BBEN.html>

Date: April 2024

Pages: 150

Price: US\$ 4,850.00 (Single User License)

ID: FE33AEE005BBEN

## Abstracts

Get it in 2 to 4 weeks by ordering today

### Flame Retardant Resin in the Global Transportation Composites Market Trends and Forecast

The future of flame retardant resin in the global transportation composites market looks promising with opportunities in the automotive and mass transit applications. The flame retardant resin in the global transportation composites market is expected to reach an estimated 290 million by 2030 with a CAGR of 2% from 2023 to 2030. The major drivers for this market are increasing demand for lightweight composites parts to meet FST (fire, smoke, and toxicity) properties for interior parts in transportation, such as roof, lavatory, seats, partitions, sidewalls, ceiling panels, doors, windows, and slide out panels.

Lucintel forecasts that phenolic will remain the largest resin type segment over the forecast period due to increased awareness of its performance and the increased demand for lightweight components in the global market.

Automotive will remain the largest end application segment by value and volume over the forecast period due to wider use of flame retardant resin in lamp reflectors, air spoilers, body panels, motors and generators, automotive ignition parts, wire and cabling system, and electrical components. Mass transit is expected to witness the highest growth over the forecast

period.

Europe is expected to remain the largest transportation composites market for flame retardant resin, driven by domestic sales and increased domestic demand for luxury vehicles. ROW is expected to witness the highest growth over the forecast period.

Europe is expected to remain the largest transportation composites market for flame retardant resin

1. United States: In response to increasing safety regulations, companies like Hexcel and Owens Corning are intensifying research on flame retardant resin for transportation composites. Initiatives such as the Federal Motor Vehicle Safety Standards drive demand for fire-resistant materials in automotive and aerospace industries. Additionally, the US Department of Transportation's focus on vehicle lightweighting for fuel efficiency creates opportunities for flame-retardant resin adoption.

2. Germany: German firms like LANXESS and Evonik are investing in flame-retardant resin technologies for transportation composites, aligning with the country's stringent safety standards and environmental regulations. Government-backed initiatives such as the Green Car Innovation Fund incentivize the development of fire-safe materials for automotive applications. Companies aim to meet the European Union's REACH regulations while enhancing product performance and sustainability.

3. China: With rapid growth in the automotive and aviation sectors, Chinese companies like SINOPEC and Jushi Group are ramping up production of flame retardant resins for transportation composites. Government initiatives such as China's 13th Five-Year Plan emphasize safety standards and environmental protection, driving demand for fire-resistant materials. Companies target meeting international safety certifications while catering to domestic market needs.

4. Brazil: Brazilian companies such as Elekeiroz and Polynt are entering the flame retardant resin market for transportation composites, spurred by safety regulations in the automotive and aerospace sectors. Initiatives like Brazil's Inovar-Auto program encourage investment in advanced materials for vehicle manufacturing. Companies aim to achieve compliance with international safety standards while promoting domestic innovation and competitiveness.

5. Japan: Japanese firms like DIC Corporation and UBE Industries are pioneering flame retardant resin technology for transportation composites, aligning with the country's stringent safety regulations and sustainability goals. Government initiatives such as Japan's Automotive Weight Reduction Support Program drive innovation in lightweight, fire-resistant materials. Companies target global market expansion while focusing on eco-friendly solutions.

## Emerging Trends in Flame Retardant Resin in the Global Transportation Composites Market

Emerging trends, which have a direct impact on the dynamics of the industry, include the emergence of halogen-free FR composites materials with fire-retardant properties and the emergence of bio-based FR prepregs.

A total of 120 figures / charts and 94 tables are provided in this 177-page report to help in your business decisions. A sample figure with insights is shown below.

## Flame Retardant Resin in the Global Transportation Composites Market by Segment

The study includes trends and forecast for flame retardant resin in the global transportation composites market by resin type, component, application, FR and non-FR resin, and region as follows:

### Flame Retardant Resin in the Global Transportation Composites Market by Application [Value (\$M) and Volume (M lbs) Shipment Analysis for 2018 – 2030]:

Automotive

Mass Transit

### Flame Retardant Resin in the Global Transportation Composites Market by Resin Type [Value (\$M) and Volume (M lbs) Shipment Analysis for 2018 – 2030]:

Epoxy

Phenolic

Polyester

Vinyl Ester

Others

Flame Retardant Resin in the Global Transportation Composites Market by Component  
[Volume (M lbs) Shipment Analysis for 2018 – 2030]:

Interior

Exterior

Others

Flame Retardant Resin in the Global Transportation Composites Market by FR and Non-  
FR Resin by Application Type [Value (\$M) Shipment Analysis for 2018 – 2030]:

Automotive

Mass Transit

Flame Retardant Resin in the Global Transportation Composites Market by Region  
[Value (\$M) and Volume (M lbs) Shipment Analysis for 2018 – 2030]:

North America

Europe

Asia Pacific

The Rest of the World

List of Flame Retardant Resin Companies in the Transportation Composites Market

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies, flame retardant resin companies in the transportation composites market cater to increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the flame retardant resin companies in the transportation composites market profiled in this report include:

Hexion Inc.

Polynt S.A.

Ineos Composites

AOC

Resonac

Huntsman Corporation

Interplastic Corporation

Westlake

Sumitom%li%Bakelite Co. Ltd.

## Recent Developments in Flame Retardant Resin in the Global Transportation Composites Market

1. Stringent Regulations Driving Demand: Increasing regulations and safety standards in the transportation industry, particularly for automotive and aerospace applications, are driving the demand for flame retardant resin in composite materials. These regulations mandate the use of flame retardant materials to enhance fire safety in vehicles and aircraft. (Source: Regulatory agencies, industry publications)

2. Innovations in Flame Retardant Technology: Ongoing research and development efforts are leading to innovations in flame retardant resin formulations, resulting in materials with improved fire performance while maintaining mechanical properties. New flame retardant additives and chemical formulations are being developed to meet stringent safety requirements without compromising on material performance. (Source: Materials science research, flame retardant technology conferences)

3. Application in Electric Vehicles (EVs): With the increasing adoption of electric vehicles, there's a growing need for flame retardant resin in composite materials used in EV battery enclosures, charging infrastructure, and interior components. Flame retardant materials are essential to mitigate fire risks associated with high-voltage electrical systems in EVs. (Source: Automotive industry reports, EV technology forums)

4. Focus on Lightweighting and Fuel Efficiency: Flame retardant resin plays a crucial role in lightweighting initiatives in the transportation industry, where reducing vehicle weight contributes to improved fuel efficiency and reduced emissions. Lightweight composites with flame retardant properties are used in vehicle components such as body panels, interior trim, and structural reinforcements. (Source: Automotive industry publications, lightweighting initiatives)

5. Integration of Sustainable Solutions: Sustainability considerations are influencing developments in flame retardant resin technology, with manufacturers exploring eco-friendly additives and bio-based resin formulations. Sustainable flame retardant materials offer environmental benefits while meeting fire safety requirements, aligning with the transportation industry's sustainability goals. (Source: Sustainability reports, industry conferences)

6. Collaborations and Partnerships: Collaboration between resin manufacturers, composite suppliers, and transportation OEMs is driving innovation and market growth in flame retardant resin technology. Partnerships enable knowledge sharing, technology transfer, and joint development of flame retardant solutions tailored to specific transportation applications.

## Features of Flame Retardant Resin in the Global Transportation Composites Market

**Market Size Estimates:** Flame retardant resin in the global transportation composites market size estimation in terms of value (\$M) and volume ( M lbs)

**Trend and Forecast Analysis:** Market trends (2018-2023) and forecast

(2024-2030) by various segments and regions.

**Segmentation Analysis:**Market size by resin type, component, application, FR and non-FR resin, and region

**Regional Analysis:** Flame retardant resin in the global transportation composites market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

**Growth Opportunities:**Analysis of growth opportunities in different resin types, components, applications, FR and non-FR resin, and regions for flame retardant resin in the global transportation composites market.

**Strategic Analysis:**This includes M&A, new product development, and competitive landscape for flame retardant resin in the global transportation composites market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

## FAQ

Q1. What is the global transportation composites market size in terms of flame retardant resin usage?

Answer:The consumption of flame retardant resin in the global transportation composites market is expected to reach an estimated \$290 million by 2030.

Q2. What is the growth forecast for flame retardant resin in the global transportation composites market?

Answer:The use of flame retardant resin in the global transportation composites market is expected to grow at a CAGR of 2% from 2023 to 2030.

Q3. What are the major drivers influencing the growth of the use of flame retardant resin in the global transportation composites market?

Answer: The major drivers for this market are increasing demand for lightweight

composites parts that meet FST (fire, smoke, and toxicity) properties for interior parts in transportation, such as roof, lavatory, seats, partitions, sidewalls, ceiling panels, doors, windows, and slide out panels.

Q4. What are the major applications of flame retardant resin in the transportation composites market?

Answer:Automotive and mass transit are the major application segments for flame retardant resin in the global transportation composites market.

Q5. What are the emerging trends in flame retardant resin in the global transportation composites market?

Answer:Emerging trends, which have a direct impact on the dynamics of the industry, include the emergence of halogen-free FR composites materials with fire-retardant properties and the emergence of bio-based FR prepregs.

Q6. What are the key flame retardant resin companies in the global transportation composites market?

Answer:Some of the key flame retardant resin companies in the global transportation composites market are as follows:

Hexion Inc.

Polynt S.A.

Ineos Composites

AOC

Resonac

Huntsman Corporation

Interplastic Corporation

Sumitomo Bakelite Co. Ltd



## Westlake

Q7. Which will be the largest segment in the future in the global transportation composites market in terms of flame retardant resin usage?

Answer: Lucintel forecasts that phenolic will remain the largest segment over the forecast period due to increased awareness of its performance and the increased demand for lightweight components in the global market.

Q8: In terms of flame retardant resin usage in the global transportation composites market, which region is expected to be the largest in the next five years?

Answer: Europe is expected to remain the largest region, and ROW is projected to witness the highest growth over the next five years.

Q9. Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% Customization Without any Additional Cost.

This report answers following 11 key questions

Q.1 What are some of the most promising potential, high-growth opportunities for flame retardant resin in the global transportation composites market by resin type (epoxy, phenolic, polyester, vinyl ester, and others), component (interior, exterior, and others), application (automotive and mass transit), FR and non-FR resin (automotive and mass transit), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2 Which segments will grow at a faster pace and why?

Q.3 Which regions will grow at a faster pace and why?

Q.4 What are the key factors affecting market dynamics? What are the drivers and challenges of flame retardant resin in the global transportation composites market?

Q.5 What are the business risks and threats to the flame retardant resin in the global transportation composites market?

Q.6 What are the emerging trends of flame retardant resin in the global transportation

composites market and the reasons behind them?

Q.7 What are some changing demands of customers in the flame retardant resin in the global transportation composites market?

Q.8 What are the new developments in flame retardant resin in the global transportation composites market? Which companies are leading these developments?

Q.9 What are the major flame retardant resin players in the global transportation composites market? What strategic initiatives are being implemented by key players for business growth?

Q.10 What are some of the competitive products and processes of flame retardant resin in the global transportation composites market, and how big of a threat do they pose for loss of market share via material or product substitution?

Q.11 What M&A activities did take place in the last five years in the global transportation composites market, in terms of flame retardant resin usage?

For any questions related to North American FRP pipe market or related flame retardant in transportation composites, flame retardant in transportation composite market, flame retardant in transportation composite market size, flame retardant in transportation composite market analysis, flame retardant in transportation composite suppliers, flame retardant in transportation composite manufacturers, flame retardant in transportation composite raw material, flame retardant in transportation composite cost, flame retardant in transportation composite market trend and forecast, flame retardant in transportation composite applications, write Lucintel analyst at email: [helpdesk@lucintel.com](mailto:helpdesk@lucintel.com). We will be glad to get back to you soon.

## Contents

### 1. EXECUTIVE SUMMARY

### 2. MARKET BACKGROUND AND CLASSIFICATIONS

2.1: Introduction, Background, and Classifications

2.2: Supply Chain

2.3: Industry Drivers and Challenges

### 3. MARKET TRENDS AND FORECAST ANALYSIS FROM 2018 TO 2030

3.1: Macroeconomic Trends and Forecast

3.2: Flame Retardant Resin in the Global Transportation Composites Market: Trends and Forecast

3.3: Flame Retardant Resin in the Global Transportation Composites Market by Resin Type

3.3.1: Polyester

3.3.2: Vinyl ester

3.3.3: Epoxy

3.3.4: Phenolic

3.3.5: Others

3.4: Flame Retardant Resin in the Global Transportation Composites Market by Application

3.4.1: Automotive

3.4.2: Mass Transit

3.5: FR and Non-FR Resin in the Global Transportation Composites Market by Application

3.5.1: Automotive

3.5.2: Mass Transit

### 4. MARKET TRENDS AND FORECAST ANALYSIS BY REGION

4.1: Flame Retardant Resin in the Global Transportation Composites Market by Region

4.2: Flame Retardant Resin in the North American Transportation Composites Market

4.2.1: Market by Resin Type: Polyester, Vinyl Ester, Epoxy, Phenolic and Others

4.2.2: Market by Applications: Automotive and Mass Transit

4.3: Flame Retardant Resin in the European Transportation Composites Market

4.3.1: Market by Resin Type: Polyester, Vinyl Ester, Epoxy, Phenolic and Others

- 4.3.2: Market by Applications: Automotive and Mass Transit
- 4.4: Flame Retardant Resin in the APAC Transportation Composites Market
  - 4.4.1: Market by Resin Type: Polyester, Vinyl Ester, Epoxy, Phenolic, and others
  - 4.4.2: Market by Application: Automotive and Mass Transit
- 4.5: Flame Retardant Resin in the ROW Transportation Composites Market
  - 4.5.1: Market by Resin Type: Polyester, Vinyl Ester, Epoxy, Phenolic, and Others
  - 4.5.2: Market by Application: Automotive and Mass Transit

## **5. COMPETITOR ANALYSIS**

- 5.1: Product Portfolio Analysis
- 5.2: Market Share Analysis
- 5.3: Operational Integration
- 5.4: Geographical Reach
- 5.5: Porter's Five Forces Analysis

## **6. GROWTH OPPORTUNITIES AND STRATEGIC ANALYSIS**

- 6.1: Growth Opportunity Analysis
  - 6.1.1: Growth Opportunities for Flame Retardant Resin in the Global Transportation Composites Market by Application
  - 6.1.2: Growth Opportunities for Flame Retardant Resin in the Global Transportation Composites Market by Resin Type
  - 6.1.3: Growth Opportunities for Flame Retardant Resin in the Global Transportation Composites Market by Region
- 6.2: Emerging Trends in Flame Retardant Resin in the Global Transportation Composites Market
- 6.3: Strategic Analysis
  - 6.3.1: New Product Development
  - 6.3.2: Capacity Expansion
  - 6.3.3: Mergers, Acquisitions, and Joint Ventures
  - 6.3.4: Certification and Licensing

## **7. COMPANY PROFILES OF LEADING PLAYERS**

- 7.1: Hexion Inc
- 7.2: Polynt S.A.
- 7.3: Ineos Composite
- 7.4: AOC

7.5: Resonac.

7.6: Huntsman Corporation

7.7: Interplastic Corporation

7.8: Sumitomo Bakelite Co. Ltd.

7.9: Westlake

## I would like to order

Product name: Flame Retardant Resin in the Global Transportation Composites Market Report: Trends, Forecast and Competitive Analysis [2024-2030]

Product link: <https://marketpublishers.com/r/FE33AEE005BBEN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/FE33AEE005BBEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

