

Global Flame Retardant PC Insulation Material Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Flame Retardant PC Insulation Material market size was valued at US\$ 3859 million in 2025 and is forecast to a readjusted size of US\$ 5556 million by 2032 with a CAGR of 5.4% during review period.

The core function of flame retardant PC insulation material is to effectively isolate current and prevent leakage under extreme electrical conditions such as high temperature, high pressure, or short circuits, while also inhibiting self-combustion and delaying flame spread. This primarily solves safety problems such as short circuits and fires caused by insulation failure or flammability of materials in electronic and electrical equipment, ensuring long-term reliable operation of equipment and the safety of people and property in harsh environments. It refers to a high-performance engineering material based on polycarbonate, which, through the addition of flame retardants or chemical modification, possesses both excellent electrical insulation and flame retardancy. Upstream suppliers mainly include polycarbonate resin raw material suppliers, special flame retardant manufacturers (such as halogen-free phosphorus, silicon, and sulfonate-based flame retardants), and suppliers of modified fillers such as glass fiber. Downstream suppliers directly connect with manufacturers of injection-molded electronic components such as connectors, switches, and housings, as well as manufacturers of complete products such as new energy vehicles, 5G communication base stations, and smart home appliances, ultimately applying it to consumer electronics, the automotive industry, aerospace, and energy storage equipment. In 2025, the global production of flame retardant PC insulation material was approximately 1.25 million tons, with an average selling price of approximately US\$3,000 per ton. The industry's overall gross profit margin is about 35%, and the single-line capacity is about

15,000 tons/year.

Key market drivers for flame retardant PC insulation material: 1. Upgraded electrical equipment safety standards: Global mandatory safety certifications (such as UL and IEC) are continuously raising the requirements for the flame retardant rating of electronic and electrical products, driving material upgrades. 2. The trend towards high voltage in new energy vehicles: 800V high-voltage platforms and large-capacity battery systems place unprecedentedly stringent requirements on the insulation and flame retardant performance of connectors and battery modules. 3. Safety requirements of energy storage power stations and data centers: To prevent thermal runaway disasters, large-scale electrochemical energy storage and data centers have extremely high fire safety requirements for the materials of battery pack shells, brackets, and other structural components.

This report is a detailed and comprehensive analysis for global Flame Retardant PC Insulation Material market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Flame Retardant PC Insulation Material market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Flame Retardant PC Insulation Material market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Flame Retardant PC Insulation Material market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Flame Retardant PC Insulation Material market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Flame Retardant PC Insulation Material
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Flame Retardant PC Insulation Material market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Toray Industries, Inc., Teijin, Covestro AG, Mitsubishi Chemical Group, Sabic, KUMTEK, Isolite Insulating Products Co., Ltd, Liren Electrical Insulation Materials, Rogers Corporation, Changzhou Betterial Film Technology Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Flame Retardant PC Insulation Material market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Halogenated Flame-retardant PC

Halogen-free Flame-retardant PC

Market segment by Physical Form

General Purpose Flame Retardant PC Resin

Glass Fiber Rreinforced Flame Retardant PC

Market segment by Performance

High CTI Flame Retardant PC

High Flow Flame Retardant PC

Optically Clear Flame Retardant PC

Market segment by Application

Electronics

Automotive Industry

Aerospace

Others

Major players covered

Toray Industries, Inc.

Teijin

Covestro AG

Mitsubishi Chemical Group

Sabic

KUMTEK

Isolite Insulating Products Co., Ltd

Liren Electrical Insulation Materials

Rogers Corporation

Changzhou Betterial Film Technology Co., Ltd.

Zhejiang Hengfeng Insulation Materials Co., Ltd

Suzhou Aomei Materials Technology Co., Ltd

Shenzhen Tianchang Technology Co., Ltd

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Flame Retardant PC Insulation Material product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Flame Retardant PC Insulation Material, with price, sales quantity, revenue, and global market share of Flame Retardant PC Insulation Material from 2021 to 2026.

Chapter 3, the Flame Retardant PC Insulation Material competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Flame Retardant PC Insulation Material breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Flame Retardant PC Insulation Material market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Flame Retardant PC Insulation Material.

Chapter 14 and 15, to describe Flame Retardant PC Insulation Material sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Classification of AI Building Generator by Type

1.3.1 Overview: Global AI Building Generator Market Size by Type: 2021 Versus 2025 Versus 2032

1.3.2 Global AI Building Generator Consumption Value Market Share by Type in 2025

1.3.3 Building Information Modeling (BIM) Intelligent Tools

1.3.4 Scheme Generation and Design Assistance

1.3.5 Other

1.4 Classification of AI Building Generator by Deployment Model

1.4.1 Overview: Global AI Building Generator Market Size by Deployment Model: 2021 Versus 2025 Versus 2032

1.4.2 Global AI Building Generator Consumption Value Market Share by Deployment Model in 2025

1.4.3 Cloud-Based AI Building Generator

1.4.4 On-Premise AI Generation Engine

1.5 Classification of AI Building Generator by Technology Type

1.5.1 Overview: Global AI Building Generator Market Size by Technology Type: 2021 Versus 2025 Versus 2032

1.5.2 Global AI Building Generator Consumption Value Market Share by Technology Type in 2025

1.5.3 Generative Design Software

1.5.4 Parametric Modeling System

1.5.5 AI + BIM Integrated Platform

1.5.6 Cloud-Based AI Design Tool

1.6 Global AI Building Generator Market by Application

1.6.1 Overview: Global AI Building Generator Market Size by Application: 2021 Versus 2025 Versus 2032

1.6.2 Architectural Design Firms

1.6.3 Real Estate and Developers

1.6.4 Government and Planning Agencies

1.6.5 Education and Research

1.7 Global AI Building Generator Market Size & Forecast

1.8 Global AI Building Generator Market Size and Forecast by Region

1.8.1 Global AI Building Generator Market Size by Region: 2021 VS 2025 VS 2032

- 1.8.2 Global AI Building Generator Market Size by Region, (2021-2032)
- 1.8.3 North America AI Building Generator Market Size and Prospect (2021-2032)
- 1.8.4 Europe AI Building Generator Market Size and Prospect (2021-2032)
- 1.8.5 Asia-Pacific AI Building Generator Market Size and Prospect (2021-2032)
- 1.8.6 South America AI Building Generator Market Size and Prospect (2021-2032)
- 1.8.7 Middle East & Africa AI Building Generator Market Size and Prospect (2021-2032)

2 COMPANY PROFILES

2.1 AIRI Lab

- 2.1.1 AIRI Lab Details
- 2.1.2 AIRI Lab Major Business
- 2.1.3 AIRI Lab AI Building Generator Product and Solutions
- 2.1.4 AIRI Lab AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 AIRI Lab Recent Developments and Future Plans

2.2 Maket.ai

- 2.2.1 Maket.ai Details
- 2.2.2 Maket.ai Major Business
- 2.2.3 Maket.ai AI Building Generator Product and Solutions
- 2.2.4 Maket.ai AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 Maket.ai Recent Developments and Future Plans

2.3 Prome AI

- 2.3.1 Prome AI Details
- 2.3.2 Prome AI Major Business
- 2.3.3 Prome AI AI Building Generator Product and Solutions
- 2.3.4 Prome AI AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)
- 2.3.5 Prome AI Recent Developments and Future Plans

2.4 BricsCAD

- 2.4.1 BricsCAD Details
- 2.4.2 BricsCAD Major Business
- 2.4.3 BricsCAD AI Building Generator Product and Solutions
- 2.4.4 BricsCAD AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)
- 2.4.5 BricsCAD Recent Developments and Future Plans

2.5 ARCHITEChTURES

- 2.5.1 ARCHITEChTURES Details
- 2.5.2 ARCHITEChTURES Major Business
- 2.5.3 ARCHITEChTURES AI Building Generator Product and Solutions
- 2.5.4 ARCHITEChTURES AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)
- 2.5.5 ARCHITEChTURES Recent Developments and Future Plans
- 2.6 mnml.ai
 - 2.6.1 mnml.ai Details
 - 2.6.2 mnml.ai Major Business
 - 2.6.3 mnml.ai AI Building Generator Product and Solutions
 - 2.6.4 mnml.ai AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 mnml.ai Recent Developments and Future Plans
- 2.7 Autodesk
 - 2.7.1 Autodesk Details
 - 2.7.2 Autodesk Major Business
 - 2.7.3 Autodesk AI Building Generator Product and Solutions
 - 2.7.4 Autodesk AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Autodesk Recent Developments and Future Plans
- 2.8 ArchiVinci
 - 2.8.1 ArchiVinci Details
 - 2.8.2 ArchiVinci Major Business
 - 2.8.3 ArchiVinci AI Building Generator Product and Solutions
 - 2.8.4 ArchiVinci AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 ArchiVinci Recent Developments and Future Plans
- 2.9 Leonardo AI
 - 2.9.1 Leonardo AI Details
 - 2.9.2 Leonardo AI Major Business
 - 2.9.3 Leonardo AI AI Building Generator Product and Solutions
 - 2.9.4 Leonardo AI AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Leonardo AI Recent Developments and Future Plans
- 2.10 ArchitectGPT
 - 2.10.1 ArchitectGPT Details
 - 2.10.2 ArchitectGPT Major Business
 - 2.10.3 ArchitectGPT AI Building Generator Product and Solutions
 - 2.10.4 ArchitectGPT AI Building Generator Revenue, Gross Margin and Market Share

(2021-2026)

2.10.5 ArchitectGPT Recent Developments and Future Plans

2.11 Bentley Systems

2.11.1 Bentley Systems Details

2.11.2 Bentley Systems Major Business

2.11.3 Bentley Systems AI Building Generator Product and Solutions

2.11.4 Bentley Systems AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Bentley Systems Recent Developments and Future Plans

2.12 Graphisoft

2.12.1 Graphisoft Details

2.12.2 Graphisoft Major Business

2.12.3 Graphisoft AI Building Generator Product and Solutions

2.12.4 Graphisoft AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Graphisoft Recent Developments and Future Plans

2.13 TestFit

2.13.1 TestFit Details

2.13.2 TestFit Major Business

2.13.3 TestFit AI Building Generator Product and Solutions

2.13.4 TestFit AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 TestFit Recent Developments and Future Plans

2.14 ArkDesign AI

2.14.1 ArkDesign AI Details

2.14.2 ArkDesign AI Major Business

2.14.3 ArkDesign AI AI Building Generator Product and Solutions

2.14.4 ArkDesign AI AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 ArkDesign AI Recent Developments and Future Plans

2.15 Paintit.ai

2.15.1 Paintit.ai Details

2.15.2 Paintit.ai Major Business

2.15.3 Paintit.ai AI Building Generator Product and Solutions

2.15.4 Paintit.ai AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 Paintit.ai Recent Developments and Future Plans

2.16 PicLumen

2.16.1 PicLumen Details

- 2.16.2 PicLumen Major Business
- 2.16.3 PicLumen AI Building Generator Product and Solutions
- 2.16.4 PicLumen AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)
- 2.16.5 PicLumen Recent Developments and Future Plans
- 2.17 Blueprints AI
 - 2.17.1 Blueprints AI Details
 - 2.17.2 Blueprints AI Major Business
 - 2.17.3 Blueprints AI AI Building Generator Product and Solutions
 - 2.17.4 Blueprints AI AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)
 - 2.17.5 Blueprints AI Recent Developments and Future Plans
- 2.18 XKool
 - 2.18.1 XKool Details
 - 2.18.2 XKool Major Business
 - 2.18.3 XKool AI Building Generator Product and Solutions
 - 2.18.4 XKool AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)
 - 2.18.5 XKool Recent Developments and Future Plans
- 2.19 Higharc AI
 - 2.19.1 Higharc AI Details
 - 2.19.2 Higharc AI Major Business
 - 2.19.3 Higharc AI AI Building Generator Product and Solutions
 - 2.19.4 Higharc AI AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)
 - 2.19.5 Higharc AI Recent Developments and Future Plans
- 2.20 Archistar
 - 2.20.1 Archistar Details
 - 2.20.2 Archistar Major Business
 - 2.20.3 Archistar AI Building Generator Product and Solutions
 - 2.20.4 Archistar AI Building Generator Revenue, Gross Margin and Market Share (2021-2026)
 - 2.20.5 Archistar Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

- 3.1 Global AI Building Generator Revenue and Share by Players (2021-2026)
- 3.2 Market Share Analysis (2025)
 - 3.2.1 Market Share of AI Building Generator by Company Revenue

- 3.2.2 Top 3 AI Building Generator Players Market Share in 2025
- 3.2.3 Top 6 AI Building Generator Players Market Share in 2025
- 3.3 AI Building Generator Market: Overall Company Footprint Analysis
 - 3.3.1 AI Building Generator Market: Region Footprint
 - 3.3.2 AI Building Generator Market: Company Product Type Footprint
 - 3.3.3 AI Building Generator Market: Company Product Application Footprint
- 3.4 New Market Entrants and Barriers to Market Entry
- 3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

- 4.1 Global AI Building Generator Consumption Value and Market Share by Type (2021-2026)
- 4.2 Global AI Building Generator Market Forecast by Type (2027-2032)

5 MARKET SIZE SEGMENT BY APPLICATION

- 5.1 Global AI Building Generator Consumption Value Market Share by Application (2021-2026)
- 5.2 Global AI Building Generator Market Forecast by Application (2027-2032)

6 NORTH AMERICA

- 6.1 North America AI Building Generator Consumption Value by Type (2021-2032)
- 6.2 North America AI Building Generator Market Size by Application (2021-2032)
- 6.3 North America AI Building Generator Market Size by Country
 - 6.3.1 North America AI Building Generator Consumption Value by Country (2021-2032)
 - 6.3.2 United States AI Building Generator Market Size and Forecast (2021-2032)
 - 6.3.3 Canada AI Building Generator Market Size and Forecast (2021-2032)
 - 6.3.4 Mexico AI Building Generator Market Size and Forecast (2021-2032)

7 EUROPE

- 7.1 Europe AI Building Generator Consumption Value by Type (2021-2032)
- 7.2 Europe AI Building Generator Consumption Value by Application (2021-2032)
- 7.3 Europe AI Building Generator Market Size by Country
 - 7.3.1 Europe AI Building Generator Consumption Value by Country (2021-2032)
 - 7.3.2 Germany AI Building Generator Market Size and Forecast (2021-2032)

- 7.3.3 France AI Building Generator Market Size and Forecast (2021-2032)
- 7.3.4 United Kingdom AI Building Generator Market Size and Forecast (2021-2032)
- 7.3.5 Russia AI Building Generator Market Size and Forecast (2021-2032)
- 7.3.6 Italy AI Building Generator Market Size and Forecast (2021-2032)

8 ASIA-PACIFIC

- 8.1 Asia-Pacific AI Building Generator Consumption Value by Type (2021-2032)
- 8.2 Asia-Pacific AI Building Generator Consumption Value by Application (2021-2032)
- 8.3 Asia-Pacific AI Building Generator Market Size by Region
 - 8.3.1 Asia-Pacific AI Building Generator Consumption Value by Region (2021-2032)
 - 8.3.2 China AI Building Generator Market Size and Forecast (2021-2032)
 - 8.3.3 Japan AI Building Generator Market Size and Forecast (2021-2032)
 - 8.3.4 South Korea AI Building Generator Market Size and Forecast (2021-2032)
 - 8.3.5 India AI Building Generator Market Size and Forecast (2021-2032)
 - 8.3.6 Southeast Asia AI Building Generator Market Size and Forecast (2021-2032)
 - 8.3.7 Australia AI Building Generator Market Size and Forecast (2021-2032)

9 SOUTH AMERICA

- 9.1 South America AI Building Generator Consumption Value by Type (2021-2032)
- 9.2 South America AI Building Generator Consumption Value by Application (2021-2032)
- 9.3 South America AI Building Generator Market Size by Country
 - 9.3.1 South America AI Building Generator Consumption Value by Country (2021-2032)
 - 9.3.2 Brazil AI Building Generator Market Size and Forecast (2021-2032)
 - 9.3.3 Argentina AI Building Generator Market Size and Forecast (2021-2032)

10 MIDDLE EAST & AFRICA

- 10.1 Middle East & Africa AI Building Generator Consumption Value by Type (2021-2032)
- 10.2 Middle East & Africa AI Building Generator Consumption Value by Application (2021-2032)
- 10.3 Middle East & Africa AI Building Generator Market Size by Country
 - 10.3.1 Middle East & Africa AI Building Generator Consumption Value by Country (2021-2032)
 - 10.3.2 Turkey AI Building Generator Market Size and Forecast (2021-2032)

10.3.3 Saudi Arabia AI Building Generator Market Size and Forecast (2021-2032)

10.3.4 UAE AI Building Generator Market Size and Forecast (2021-2032)

11 MARKET DYNAMICS

11.1 AI Building Generator Market Drivers

11.2 AI Building Generator Market Restraints

11.3 AI Building Generator Trends Analysis

11.4 Porters Five Forces Analysis

11.4.1 Threat of New Entrants

11.4.2 Bargaining Power of Suppliers

11.4.3 Bargaining Power of Buyers

11.4.4 Threat of Substitutes

11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

12.1 AI Building Generator Industry Chain

12.2 AI Building Generator Upstream Analysis

12.3 AI Building Generator Midstream Analysis

12.4 AI Building Generator Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology

14.2 Research Process and Data Source

14.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Flame Retardant PC Insulation Material Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Flame Retardant PC Insulation Material Consumption Value by Physical Form, (USD Million), 2021 & 2025 & 2032

Table 3. Global Flame Retardant PC Insulation Material Consumption Value by Performance, (USD Million), 2021 & 2025 & 2032

Table 4. Global Flame Retardant PC Insulation Material Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Toray Industries, Inc. Basic Information, Manufacturing Base and Competitors

Table 6. Toray Industries, Inc. Major Business

Table 7. Toray Industries, Inc. Flame Retardant PC Insulation Material Product and Services

Table 8. Toray Industries, Inc. Flame Retardant PC Insulation Material Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Toray Industries, Inc. Recent Developments/Updates

Table 10. Teijin Basic Information, Manufacturing Base and Competitors

Table 11. Teijin Major Business

Table 12. Teijin Flame Retardant PC Insulation Material Product and Services

Table 13. Teijin Flame Retardant PC Insulation Material Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Teijin Recent Developments/Updates

Table 15. Covestro AG Basic Information, Manufacturing Base and Competitors

Table 16. Covestro AG Major Business

Table 17. Covestro AG Flame Retardant PC Insulation Material Product and Services

Table 18. Covestro AG Flame Retardant PC Insulation Material Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Covestro AG Recent Developments/Updates

Table 20. Mitsubishi Chemical Group Basic Information, Manufacturing Base and Competitors

Table 21. Mitsubishi Chemical Group Major Business

Table 22. Mitsubishi Chemical Group Flame Retardant PC Insulation Material Product and Services

Table 23. Mitsubishi Chemical Group Flame Retardant PC Insulation Material Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Mitsubishi Chemical Group Recent Developments/Updates

Table 25. Sabic Basic Information, Manufacturing Base and Competitors

Table 26. Sabic Major Business

Table 27. Sabic Flame Retardant PC Insulation Material Product and Services

Table 28. Sabic Flame Retardant PC Insulation Material Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Sabic Recent Developments/Updates

Table 30. KUMTEK Basic Information, Manufacturing Base and Competitors

Table 31. KUMTEK Major Business

Table 32. KUMTEK Flame Retardant PC Insulation Material Product and Services

Table 33. KUMTEK Flame Retardant PC Insulation Material Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. KUMTEK Recent Developments/Updates

Table 35. Isolite Insulating Products Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 36. Isolite Insulating Products Co., Ltd Major Business

Table 37. Isolite Insulating Products Co., Ltd Flame Retardant PC Insulation Material Product and Services

Table 38. Isolite Insulating Products Co., Ltd Flame Retardant PC Insulation Material Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Isolite Insulating Products Co., Ltd Recent Developments/Updates

Table 40. Liren Electrical Insulation Materials Basic Information, Manufacturing Base and Competitors

Table 41. Liren Electrical Insulation Materials Major Business

Table 42. Liren Electrical Insulation Materials Flame Retardant PC Insulation Material Product and Services

Table 43. Liren Electrical Insulation Materials Flame Retardant PC Insulation Material Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Liren Electrical Insulation Materials Recent Developments/Updates

Table 45. Rogers Corporation Basic Information, Manufacturing Base and Competitors

Table 46. Rogers Corporation Major Business

Table 47. Rogers Corporation Flame Retardant PC Insulation Material Product and

Services

Table 48. Rogers Corporation Flame Retardant PC Insulation Material Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Rogers Corporation Recent Developments/Updates

Table 50. Changzhou Betterial Film Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 51. Changzhou Betterial Film Technology Co., Ltd. Major Business

Table 52. Changzhou Betterial Film Technology Co., Ltd. Flame Retardant PC Insulation Material Product and Services

Table 53. Changzhou Betterial Film Technology Co., Ltd. Flame Retardant PC Insulation Material Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Changzhou Betterial Film Technology Co., Ltd. Recent Developments/Updates

Table 55. Zhejiang Hengfeng Insulation Materials Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 56. Zhejiang Hengfeng Insulation Materials Co., Ltd Major Business

Table 57. Zhejiang Hengfeng Insulation Materials Co., Ltd Flame Retardant PC Insulation Material Product and Services

Table 58. Zhejiang Hengfeng Insulation Materials Co., Ltd Flame Retardant PC Insulation Material Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Zhejiang Hengfeng Insulation Materials Co., Ltd Recent Developments/Updates

Table 60. Suzhou Aomei Materials Technology Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 61. Suzhou Aomei Materials Technology Co., Ltd Major Business

Table 62. Suzhou Aomei Materials Technology Co., Ltd Flame Retardant PC Insulation Material Product and Services

Table 63. Suzhou Aomei Materials Technology Co., Ltd Flame Retardant PC Insulation Material Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Suzhou Aomei Materials Technology Co., Ltd Recent Developments/Updates

Table 65. Shenzhen Tianchang Technology Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 66. Shenzhen Tianchang Technology Co., Ltd Major Business

Table 67. Shenzhen Tianchang Technology Co., Ltd Flame Retardant PC Insulation Material Product and Services

Table 68. Shenzhen Tianchang Technology Co., Ltd Flame Retardant PC Insulation Material Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Shenzhen Tianchang Technology Co., Ltd Recent Developments/Updates

Table 70. Global Flame Retardant PC Insulation Material Sales Quantity by Manufacturer (2021-2026) & (Kilotons)

Table 71. Global Flame Retardant PC Insulation Material Revenue by Manufacturer (2021-2026) & (USD Million)

Table 72. Global Flame Retardant PC Insulation Material Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 73. Market Position of Manufacturers in Flame Retardant PC Insulation Material, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 74. Head Office and Flame Retardant PC Insulation Material Production Site of Key Manufacturer

Table 75. Flame Retardant PC Insulation Material Market: Company Product Type Footprint

Table 76. Flame Retardant PC Insulation Material Market: Company Product Application Footprint

Table 77. Flame Retardant PC Insulation Material New Market Entrants and Barriers to Market Entry

Table 78. Flame Retardant PC Insulation Material Mergers, Acquisition, Agreements, and Collaborations

Table 79. Global Flame Retardant PC Insulation Material Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 80. Global Flame Retardant PC Insulation Material Sales Quantity by Region (2021-2026) & (Kilotons)

Table 81. Global Flame Retardant PC Insulation Material Sales Quantity by Region (2027-2032) & (Kilotons)

Table 82. Global Flame Retardant PC Insulation Material Consumption Value by Region (2021-2026) & (USD Million)

Table 83. Global Flame Retardant PC Insulation Material Consumption Value by Region (2027-2032) & (USD Million)

Table 84. Global Flame Retardant PC Insulation Material Average Price by Region (2021-2026) & (US\$/Ton)

Table 85. Global Flame Retardant PC Insulation Material Average Price by Region (2027-2032) & (US\$/Ton)

Table 86. Global Flame Retardant PC Insulation Material Sales Quantity by Type (2021-2026) & (Kilotons)

Table 87. Global Flame Retardant PC Insulation Material Sales Quantity by Type

(2027-2032) & (Kilotons)

Table 88. Global Flame Retardant PC Insulation Material Consumption Value by Type (2021-2026) & (USD Million)

Table 89. Global Flame Retardant PC Insulation Material Consumption Value by Type (2027-2032) & (USD Million)

Table 90. Global Flame Retardant PC Insulation Material Average Price by Type (2021-2026) & (US\$/Ton)

Table 91. Global Flame Retardant PC Insulation Material Average Price by Type (2027-2032) & (US\$/Ton)

Table 92. Global Flame Retardant PC Insulation Material Sales Quantity by Application (2021-2026) & (Kilotons)

Table 93. Global Flame Retardant PC Insulation Material Sales Quantity by Application (2027-2032) & (Kilotons)

Table 94. Global Flame Retardant PC Insulation Material Consumption Value by Application (2021-2026) & (USD Million)

Table 95. Global Flame Retardant PC Insulation Material Consumption Value by Application (2027-2032) & (USD Million)

Table 96. Global Flame Retardant PC Insulation Material Average Price by Application (2021-2026) & (US\$/Ton)

Table 97. Global Flame Retardant PC Insulation Material Average Price by Application (2027-2032) & (US\$/Ton)

Table 98. North America Flame Retardant PC Insulation Material Sales Quantity by Type (2021-2026) & (Kilotons)

Table 99. North America Flame Retardant PC Insulation Material Sales Quantity by Type (2027-2032) & (Kilotons)

Table 100. North America Flame Retardant PC Insulation Material Sales Quantity by Application (2021-2026) & (Kilotons)

Table 101. North America Flame Retardant PC Insulation Material Sales Quantity by Application (2027-2032) & (Kilotons)

Table 102. North America Flame Retardant PC Insulation Material Sales Quantity by Country (2021-2026) & (Kilotons)

Table 103. North America Flame Retardant PC Insulation Material Sales Quantity by Country (2027-2032) & (Kilotons)

Table 104. North America Flame Retardant PC Insulation Material Consumption Value by Country (2021-2026) & (USD Million)

Table 105. North America Flame Retardant PC Insulation Material Consumption Value by Country (2027-2032) & (USD Million)

Table 106. Europe Flame Retardant PC Insulation Material Sales Quantity by Type (2021-2026) & (Kilotons)

Table 107. Europe Flame Retardant PC Insulation Material Sales Quantity by Type (2027-2032) & (Kilotons)

Table 108. Europe Flame Retardant PC Insulation Material Sales Quantity by Application (2021-2026) & (Kilotons)

Table 109. Europe Flame Retardant PC Insulation Material Sales Quantity by Application (2027-2032) & (Kilotons)

Table 110. Europe Flame Retardant PC Insulation Material Sales Quantity by Country (2021-2026) & (Kilotons)

Table 111. Europe Flame Retardant PC Insulation Material Sales Quantity by Country (2027-2032) & (Kilotons)

Table 112. Europe Flame Retardant PC Insulation Material Consumption Value by Country (2021-2026) & (USD Million)

Table 113. Europe Flame Retardant PC Insulation Material Consumption Value by Country (2027-2032) & (USD Million)

Table 114. Asia-Pacific Flame Retardant PC Insulation Material Sales Quantity by Type (2021-2026) & (Kilotons)

Table 115. Asia-Pacific Flame Retardant PC Insulation Material Sales Quantity by Type (2027-2032) & (Kilotons)

Table 116. Asia-Pacific Flame Retardant PC Insulation Material Sales Quantity by Application (2021-2026) & (Kilotons)

Table 117. Asia-Pacific Flame Retardant PC Insulation Material Sales Quantity by Application (2027-2032) & (Kilotons)

Table 118. Asia-Pacific Flame Retardant PC Insulation Material Sales Quantity by Region (2021-2026) & (Kilotons)

Table 119. Asia-Pacific Flame Retardant PC Insulation Material Sales Quantity by Region (2027-2032) & (Kilotons)

Table 120. Asia-Pacific Flame Retardant PC Insulation Material Consumption Value by Region (2021-2026) & (USD Million)

Table 121. Asia-Pacific Flame Retardant PC Insulation Material Consumption Value by Region (2027-2032) & (USD Million)

Table 122. South America Flame Retardant PC Insulation Material Sales Quantity by Type (2021-2026) & (Kilotons)

Table 123. South America Flame Retardant PC Insulation Material Sales Quantity by Type (2027-2032) & (Kilotons)

Table 124. South America Flame Retardant PC Insulation Material Sales Quantity by Application (2021-2026) & (Kilotons)

Table 125. South America Flame Retardant PC Insulation Material Sales Quantity by Application (2027-2032) & (Kilotons)

Table 126. South America Flame Retardant PC Insulation Material Sales Quantity by

Country (2021-2026) & (Kilotons)

Table 127. South America Flame Retardant PC Insulation Material Sales Quantity by Country (2027-2032) & (Kilotons)

Table 128. South America Flame Retardant PC Insulation Material Consumption Value by Country (2021-2026) & (USD Million)

Table 129. South America Flame Retardant PC Insulation Material Consumption Value by Country (2027-2032) & (USD Million)

Table 130. Middle East & Africa Flame Retardant PC Insulation Material Sales Quantity by Type (2021-2026) & (Kilotons)

Table 131. Middle East & Africa Flame Retardant PC Insulation Material Sales Quantity by Type (2027-2032) & (Kilotons)

Table 132. Middle East & Africa Flame Retardant PC Insulation Material Sales Quantity by Application (2021-2026) & (Kilotons)

Table 133. Middle East & Africa Flame Retardant PC Insulation Material Sales Quantity by Application (2027-2032) & (Kilotons)

Table 134. Middle East & Africa Flame Retardant PC Insulation Material Sales Quantity by Country (2021-2026) & (Kilotons)

Table 135. Middle East & Africa Flame Retardant PC Insulation Material Sales Quantity by Country (2027-2032) & (Kilotons)

Table 136. Middle East & Africa Flame Retardant PC Insulation Material Consumption Value by Country (2021-2026) & (USD Million)

Table 137. Middle East & Africa Flame Retardant PC Insulation Material Consumption Value by Country (2027-2032) & (USD Million)

Table 138. Flame Retardant PC Insulation Material Raw Material

Table 139. Key Manufacturers of Flame Retardant PC Insulation Material Raw Materials

Table 140. Flame Retardant PC Insulation Material Typical Distributors

Table 141. Flame Retardant PC Insulation Material Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Flame Retardant PC Insulation Material Picture
- Figure 2. Global Flame Retardant PC Insulation Material Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Flame Retardant PC Insulation Material Revenue Market Share by Type in 2025
- Figure 4. Halogenated Flame-retardant PC Examples
- Figure 5. Halogen-free Flame-retardant PC Examples
- Figure 6. Global Flame Retardant PC Insulation Material Revenue by Physical Form, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Flame Retardant PC Insulation Material Revenue Market Share by Physical Form in 2025
- Figure 8. General Purpose Flame Retardant PC Resin Examples
- Figure 9. Glass Fiber Rreinforced Flame Retardant PC Examples
- Figure 10. Global Flame Retardant PC Insulation Material Revenue by Performance, (USD Million), 2021 & 2025 & 2032
- Figure 11. Global Flame Retardant PC Insulation Material Revenue Market Share by Performance in 2025
- Figure 12. High CTI Flame Retardant PC Examples
- Figure 13. High Flow Flame Retardant PC Examples
- Figure 14. Optically Clear Flame Retardant PC Examples
- Figure 15. Global Flame Retardant PC Insulation Material Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 16. Global Flame Retardant PC Insulation Material Revenue Market Share by Application in 2025
- Figure 17. Electronics Examples
- Figure 18. Automotive Industry Examples
- Figure 19. Aerospace Examples
- Figure 20. Others Examples
- Figure 21. Global Flame Retardant PC Insulation Material Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 22. Global Flame Retardant PC Insulation Material Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 23. Global Flame Retardant PC Insulation Material Sales Quantity (2021-2032) & (Kilotons)
- Figure 24. Global Flame Retardant PC Insulation Material Price (2021-2032) &

(US\$/Ton)

Figure 25. Global Flame Retardant PC Insulation Material Sales Quantity Market Share by Manufacturer in 2025

Figure 26. Global Flame Retardant PC Insulation Material Revenue Market Share by Manufacturer in 2025

Figure 27. Producer Shipments of Flame Retardant PC Insulation Material by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 28. Top 3 Flame Retardant PC Insulation Material Manufacturer (Revenue) Market Share in 2025

Figure 29. Top 6 Flame Retardant PC Insulation Material Manufacturer (Revenue) Market Share in 2025

Figure 30. Global Flame Retardant PC Insulation Material Sales Quantity Market Share by Region (2021-2032)

Figure 31. Global Flame Retardant PC Insulation Material Consumption Value Market Share by Region (2021-2032)

Figure 32. North America Flame Retardant PC Insulation Material Consumption Value (2021-2032) & (USD Million)

Figure 33. Europe Flame Retardant PC Insulation Material Consumption Value (2021-2032) & (USD Million)

Figure 34. Asia-Pacific Flame Retardant PC Insulation Material Consumption Value (2021-2032) & (USD Million)

Figure 35. South America Flame Retardant PC Insulation Material Consumption Value (2021-2032) & (USD Million)

Figure 36. Middle East & Africa Flame Retardant PC Insulation Material Consumption Value (2021-2032) & (USD Million)

Figure 37. Global Flame Retardant PC Insulation Material Sales Quantity Market Share by Type (2021-2032)

Figure 38. Global Flame Retardant PC Insulation Material Consumption Value Market Share by Type (2021-2032)

Figure 39. Global Flame Retardant PC Insulation Material Average Price by Type (2021-2032) & (US\$/Ton)

Figure 40. Global Flame Retardant PC Insulation Material Sales Quantity Market Share by Application (2021-2032)

Figure 41. Global Flame Retardant PC Insulation Material Revenue Market Share by Application (2021-2032)

Figure 42. Global Flame Retardant PC Insulation Material Average Price by Application (2021-2032) & (US\$/Ton)

Figure 43. North America Flame Retardant PC Insulation Material Sales Quantity Market Share by Type (2021-2032)

Figure 44. North America Flame Retardant PC Insulation Material Sales Quantity Market Share by Application (2021-2032)

Figure 45. North America Flame Retardant PC Insulation Material Sales Quantity Market Share by Country (2021-2032)

Figure 46. North America Flame Retardant PC Insulation Material Consumption Value Market Share by Country (2021-2032)

Figure 47. United States Flame Retardant PC Insulation Material Consumption Value (2021-2032) & (USD Million)

Figure 48. Canada Flame Retardant PC Insulation Material Consumption Value (2021-2032) & (USD Million)

Figure 49. Mexico Flame Retardant PC Insulation Material Consumption Value (2021-2032) & (USD Million)

Figure 50. Europe Flame Retardant PC Insulation Material Sales Quantity Market Share by Type (2021-2032)

Figure 51. Europe Flame Retardant PC Insulation Material Sales Quantity Market Share by Application (2021-2032)

Figure 52. Europe Flame Retardant PC Insulation Material Sales Quantity Market Share by Country (2021-2032)

Figure 53. Europe Flame Retardant PC Insulation Material Consumption Value Market Share by Country (2021-2032)

Figure 54. Germany Flame Retardant PC Insulation Material Consumption Value (2021-2032) & (USD Million)

Figure 55. France Flame Retardant PC Insulation Material Consumption Value (2021-2032) & (USD Million)

Figure 56. United Kingdom Flame Retardant PC Insulation Material Consumption Value (2021-2032) & (USD Million)

Figure 57. Russia Flame Retardant PC Insulation Material Consumption Value (2021-2032) & (USD Million)

Figure 58. Italy Flame Retardant PC Insulation Material Consumption Value (2021-2032) & (USD Million)

Figure 59. Asia-Pacific Flame Retardant PC Insulation Material Sales Quantity Market Share by Type (2021-2032)

Figure 60. Asia-Pacific Flame Retardant PC Insulation Material Sales Quantity Market Share by Application (2021-2032)

Figure 61. Asia-Pacific Flame Retardant PC Insulation Material Sales Quantity Market Share by Region (2021-2032)

Figure 62. Asia-Pacific Flame Retardant PC Insulation Material Consumption Value Market Share by Region (2021-2032)

Figure 63. China Flame Retardant PC Insulation Material Consumption Value

(2021-2032) & (USD Million)

Figure 64. Japan Flame Retardant PC Insulation Material Consumption Value

(2021-2032) & (USD Million)

Figure 65. South Korea Flame Retardant PC Insulation Material Consumption Value

(2021-2032) & (USD Million)

Figure 66. India Flame Retardant PC Insulation Material Consumption Value

(2021-2032) & (USD Million)

Figure 67. Southeast Asia Flame Retardant PC Insulation Material Consumption Value

(2021-2032) & (USD Million)

Figure 68. Australia Flame Retardant PC Insulation Material Consumption Value

(2021-2032) & (USD Million)

Figure 69. South America Flame Retardant PC Insulation Material Sales Quantity

Market Share by Type (2021-2032)

Figure 70. South America Flame Retardant PC Insulation Material Sales Quantity

Market Share by Application (2021-2032)

Figure 71. South America Flame Retardant PC Insulation Material Sales Quantity

Market Share by Country (2021-2032)

Figure 72. South America Flame Retardant PC Insulation Material Consumption Value

Market Share by Country (2021-2032)

Figure 73. Brazil Flame Retardant PC Insulation Material Consumption Value

(2021-2032) & (USD Million)

Figure 74. Argentina Flame Retardant PC Insulation Material Consumption Value

(2021-2032) & (USD Million)

Figure 75. Middle East & Africa Flame Retardant PC Insulation Material Sales Quantity

Market Share by Type (2021-2032)

Figure 76. Middle East & Africa Flame Retardant PC Insulation Material Sales Quantity

Market Share by Application (2021-2032)

Figure 77. Middle East & Africa Flame Retardant PC Insulation Material Sales Quantity

Market Share by Country (2021-2032)

Figure 78. Middle East & Africa Flame Retardant PC Insulation Material Consumption

Value Market Share by Country (2021-2032)

Figure 79. Turkey Flame Retardant PC Insulation Material Consumption Value

(2021-2032) & (USD Million)

Figure 80. Egypt Flame Retardant PC Insulation Material Consumption Value

(2021-2032) & (USD Million)

Figure 81. Saudi Arabia Flame Retardant PC Insulation Material Consumption Value

(2021-2032) & (USD Million)

Figure 82. South Africa Flame Retardant PC Insulation Material Consumption Value

(2021-2032) & (USD Million)

Figure 83. Flame Retardant PC Insulation Material Market Drivers

Figure 84. Flame Retardant PC Insulation Material Market Restraints

Figure 85. Flame Retardant PC Insulation Material Market Trends

Figure 86. Porters Five Forces Analysis

Figure 87. Manufacturing Cost Structure Analysis of Flame Retardant PC Insulation Material in 2025

Figure 88. Manufacturing Process Analysis of Flame Retardant PC Insulation Material

Figure 89. Flame Retardant PC Insulation Material Industrial Chain

Figure 90. Sales Channel: Direct to End-User vs Distributors

Figure 91. Direct Channel Pros & Cons

Figure 92. Indirect Channel Pros & Cons

Figure 93. Methodology

Figure 94. Research Process and Data Source

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