

Global Phosphorus Flame Retardant for Engineering Plastics Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Phosphorus Flame Retardant for Engineering Plastics market size is expected to reach \$ 5405 million by 2032, rising at a market growth of 4.6% CAGR during the forecast period (2026-2032).

Phosphorus-based flame retardants for engineering plastics are a class of functional additives with phosphorus as the core element. They enhance the flame retardant properties of engineering plastics through gas-phase flame retardancy and condensed-phase char formation mechanisms. Widely used in materials such as polycarbonate, nylon, and PBT, they are important environmentally friendly alternatives to halogen-based flame retardants. Based on industry application scale and price range, global sales of phosphorus-based flame retardants for engineering plastics are estimated at approximately 920,000 tons in 2025, with an average unit price of approximately US\$4,200 per ton (equivalent to approximately US\$4.2 per kilogram). Capacity utilization is estimated at approximately 77%. The upstream of the industry chain mainly includes basic chemical raw material companies such as yellow phosphorus, phosphoric acid, and propylene oxide; the midstream consists of phosphorus-based flame retardant manufacturers and modified plastics manufacturers; and the downstream covers fields such as electronics, automotive, home appliance manufacturing, building materials, and communication equipment. The overall gross profit margin is approximately 27%, reaching 35% for companies with high-end product and formulation capabilities. The product cost structure mainly consists of raw material costs (approximately 62%), energy and environmental costs (approximately 12%), and labor and manufacturing costs (approximately 2%). Manufacturing costs account for approximately 10%, equipment depreciation for approximately 6%, and R&D and other costs for approximately 10%. On the demand side, downstream demand includes flame-

retardant materials for electronics and electrical appliances, lightweight materials for automobiles, upgrades to home appliance safety standards, fire-resistant building materials, and insulation materials for new energy equipment. Downstream customers include electronic component manufacturers, automotive parts companies, home appliance manufacturers, communication equipment manufacturers, engineering plastics modification companies, and building materials companies. On the business opportunity side, policy-driven growth stems from global regulations on halogen-free flame retardants and strengthened fire safety standards, promoting the replacement of traditional halogen-based products with phosphorus-based products. Technological innovation is driven by continuous breakthroughs in high-efficiency, low-addition formulations, high-temperature resistance, and low-smoke, low-toxicity technologies, while compatibility with engineering plastics continues to improve. Changing consumer demands reflect end-users' increased emphasis on safety, environmental protection, and sustainable development, leading to continued growth in demand for halogen-free flame-retardant materials. Furthermore, the new energy and electric vehicle sectors are generating new incremental demand, resulting in an overall trend of continuous demand expansion for the industry.

The engineering plastics phosphorus-based flame retardant industry is at a critical stage of transformation from policy-driven to technology- and application-driven. Globally, the continuous upgrading of environmental regulations and fire safety standards is accelerating the replacement of traditional halogen-based products with halogen-free flame retardants. This trend is particularly evident in the electronics, electrical, and automotive industries. Meanwhile, the rapid development of the new energy and electric vehicle industries has further amplified the demand for high-performance flame retardant materials, giving the industry strong growth certainty. From a competitive perspective, industry concentration is gradually increasing, with companies possessing integrated raw material advantages and high-end product R&D capabilities becoming more competitive. Meanwhile, mid-to-low-end products face both price competition and profit pressure. In the future, the core of the industry's development lies in technological upgrading and application expansion. On the one hand, high-efficiency, low-additive, low-smoke, low-toxicity, and high-heat-resistant products will become the mainstream direction. On the other hand, deep compounding with engineering plastics and customized solutions will become important means for enterprises to differentiate themselves in the market. In addition, fluctuations in raw material prices and rising environmental costs will continue to affect the industry's profit level, forcing enterprises to transform towards large-scale and refined management. In the long term, with the upgrading of electronic products, the electrification of automobiles, and the improvement of building safety standards, phosphorus-based flame retardants for

engineering plastics will continue to benefit from the expansion of downstream demand and gradually develop towards high performance and green development. The industry as a whole has the potential for steady growth in the medium and long term.

This report studies the global Phosphorus Flame Retardant for Engineering Plastics production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Phosphorus Flame Retardant for Engineering Plastics 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 Phosphorus Flame Retardant for Engineering Plastics that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Phosphorus Flame Retardant for Engineering Plastics total production and demand, 2021-2032, (Tons)

Global Phosphorus Flame Retardant for Engineering Plastics total production value, 2021-2032, (USD Million)

Global Phosphorus Flame Retardant for Engineering Plastics production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Phosphorus Flame Retardant for Engineering Plastics consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Phosphorus Flame Retardant for Engineering Plastics domestic production, consumption, key domestic manufacturers and share

Global Phosphorus Flame Retardant for Engineering Plastics production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Phosphorus Flame Retardant for Engineering Plastics production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Phosphorus Flame Retardant for Engineering Plastics production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Phosphorus Flame Retardant for Engineering Plastics 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 Teijin, ICL, Zhejiang Wansheng, Jiangsu Yoke Technology, GO YEN CHEMICAL INDUSTRIAL,

Daihachi Chemical Industry, ADEKA, Chang Chun Group, Totai (Inner Mongolia) Corporation, Shandong Moris Environment Industry, 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 Phosphorus Flame Retardant for Engineering Plastics market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, 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 Phosphorus Flame Retardant for Engineering Plastics Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Phosphorus Flame Retardant for Engineering Plastics Market, Segmentation by Type:

Chlorophosphate Ester

Halogen-Free Phosphate Ester

Hypophosphate

Other

Global Phosphorus Flame Retardant for Engineering Plastics Market, Segmentation by Variety:

Triphenyl Phosphate (TPP)

Resorcinol Bis(Diphenyl Phosphate) (RDP)

BDP

Others

Global Phosphorus Flame Retardant for Engineering Plastics Market, Segmentation by Structure:

Organophosphorus Flame Retardants

Inorganic Phosphorus Flame Retardants

Global Phosphorus Flame Retardant for Engineering Plastics Market, Segmentation by Application:

Aerospace

Automotive

Consumer Electronics

Construction & Furniture

Other

Companies Profiled:

Teijin

ICL

Zhejiang Wansheng

Jiangsu Yoke Technology

GO YEN CHEMICAL INDUSTRIAL

Daihachi Chemical Industry

ADEKA

Chang Chun Group

Total (Inner Mongolia) Corporation

Shandong Moris Environment Industry

Nantong Jiangshan Agrochemical & Chemicals

Shouguang Weidong Chemical

Anhui RunYue Technology

Key Questions Answered:

1. How big is the global Phosphorus Flame Retardant for Engineering Plastics market?
2. What is the demand of the global Phosphorus Flame Retardant for Engineering Plastics market?
3. What is the year over year growth of the global Phosphorus Flame Retardant for Engineering Plastics market?

4. What is the production and production value of the global Phosphorus Flame Retardant for Engineering Plastics market?
5. Who are the key producers in the global Phosphorus Flame Retardant for Engineering Plastics market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Phosphorus Flame Retardant for Engineering Plastics Introduction
- 1.2 World Phosphorus Flame Retardant for Engineering Plastics Supply & Forecast
 - 1.2.1 World Phosphorus Flame Retardant for Engineering Plastics Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Phosphorus Flame Retardant for Engineering Plastics Production (2021-2032)
 - 1.2.3 World Phosphorus Flame Retardant for Engineering Plastics Pricing Trends (2021-2032)
- 1.3 World Phosphorus Flame Retardant for Engineering Plastics Production by Region (Based on Production Site)
 - 1.3.1 World Phosphorus Flame Retardant for Engineering Plastics Production Value by Region (2021-2032)
 - 1.3.2 World Phosphorus Flame Retardant for Engineering Plastics Production by Region (2021-2032)
 - 1.3.3 World Phosphorus Flame Retardant for Engineering Plastics Average Price by Region (2021-2032)
 - 1.3.4 North America Phosphorus Flame Retardant for Engineering Plastics Production (2021-2032)
 - 1.3.5 Europe Phosphorus Flame Retardant for Engineering Plastics Production (2021-2032)
 - 1.3.6 China Phosphorus Flame Retardant for Engineering Plastics Production (2021-2032)
 - 1.3.7 Japan Phosphorus Flame Retardant for Engineering Plastics Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Phosphorus Flame Retardant for Engineering Plastics Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Phosphorus Flame Retardant for Engineering Plastics Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Phosphorus Flame Retardant for Engineering Plastics Demand (2021-2032)
- 2.2 World Phosphorus Flame Retardant for Engineering Plastics Consumption by Region
 - 2.2.1 World Phosphorus Flame Retardant for Engineering Plastics Consumption by

Region (2021-2026)

2.2.2 World Phosphorus Flame Retardant for Engineering Plastics Consumption
Forecast by Region (2027-2032)

2.3 United States Phosphorus Flame Retardant for Engineering Plastics Consumption
(2021-2032)

2.4 China Phosphorus Flame Retardant for Engineering Plastics Consumption
(2021-2032)

2.5 Europe Phosphorus Flame Retardant for Engineering Plastics Consumption
(2021-2032)

2.6 Japan Phosphorus Flame Retardant for Engineering Plastics Consumption
(2021-2032)

2.7 South Korea Phosphorus Flame Retardant for Engineering Plastics Consumption
(2021-2032)

2.8 ASEAN Phosphorus Flame Retardant for Engineering Plastics Consumption
(2021-2032)

2.9 India Phosphorus Flame Retardant for Engineering Plastics Consumption
(2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Phosphorus Flame Retardant for Engineering Plastics Production Value by
Manufacturer (2021-2026)

3.2 World Phosphorus Flame Retardant for Engineering Plastics Production by
Manufacturer (2021-2026)

3.3 World Phosphorus Flame Retardant for Engineering Plastics Average Price by
Manufacturer (2021-2026)

3.4 Phosphorus Flame Retardant for Engineering Plastics Company Evaluation
Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Phosphorus Flame Retardant for Engineering Plastics Industry Rank of
Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Phosphorus Flame Retardant for
Engineering Plastics in 2025

3.5.3 Global Concentration Ratios (CR8) for Phosphorus Flame Retardant for
Engineering Plastics in 2025

3.6 Phosphorus Flame Retardant for Engineering Plastics Market: Overall Company
Footprint Analysis

3.6.1 Phosphorus Flame Retardant for Engineering Plastics Market: Region Footprint

3.6.2 Phosphorus Flame Retardant for Engineering Plastics Market: Company Product

Type Footprint

3.6.3 Phosphorus Flame Retardant for Engineering Plastics Market: Company Product

Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Phosphorus Flame Retardant for Engineering Plastics Production Value Comparison

4.1.1 United States VS China: Phosphorus Flame Retardant for Engineering Plastics Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Phosphorus Flame Retardant for Engineering Plastics Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Phosphorus Flame Retardant for Engineering Plastics Production Comparison

4.2.1 United States VS China: Phosphorus Flame Retardant for Engineering Plastics Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Phosphorus Flame Retardant for Engineering Plastics Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Phosphorus Flame Retardant for Engineering Plastics Consumption Comparison

4.3.1 United States VS China: Phosphorus Flame Retardant for Engineering Plastics Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Phosphorus Flame Retardant for Engineering Plastics Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Phosphorus Flame Retardant for Engineering Plastics Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Phosphorus Flame Retardant for Engineering Plastics Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production Value (2021-2026)

4.4.3 United States Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production (2021-2026)

4.5 China Based Phosphorus Flame Retardant for Engineering Plastics Manufacturers

and Market Share

4.5.1 China Based Phosphorus Flame Retardant for Engineering Plastics Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production Value (2021-2026)

4.5.3 China Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production (2021-2026)

4.6 Rest of World Based Phosphorus Flame Retardant for Engineering Plastics Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Phosphorus Flame Retardant for Engineering Plastics Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Phosphorus Flame Retardant for Engineering Plastics Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Chlorophosphate Ester

5.2.2 Halogen-Free Phosphate Ester

5.2.3 Hypophosphate

5.2.4 Other

5.3 Market Segment by Type

5.3.1 World Phosphorus Flame Retardant for Engineering Plastics Production by Type (2021-2032)

5.3.2 World Phosphorus Flame Retardant for Engineering Plastics Production Value by Type (2021-2032)

5.3.3 World Phosphorus Flame Retardant for Engineering Plastics Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY VARIETY

6.1 World Phosphorus Flame Retardant for Engineering Plastics Market Size Overview by Variety: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Variety

6.2.1 Triphenyl Phosphate (TPP)

6.2.2 Resorcinol Bis(Diphenyl Phosphate) (RDP)

6.2.3 BDP

6.2.4 Others

6.3 Market Segment by Variety

6.3.1 World Phosphorus Flame Retardant for Engineering Plastics Production by Variety (2021-2032)

6.3.2 World Phosphorus Flame Retardant for Engineering Plastics Production Value by Variety (2021-2032)

6.3.3 World Phosphorus Flame Retardant for Engineering Plastics Average Price by Variety (2021-2032)

7 MARKET ANALYSIS BY STRUCTURE

7.1 World Phosphorus Flame Retardant for Engineering Plastics Market Size Overview by Structure: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Structure

7.2.1 Organophosphorus Flame Retardants

7.2.2 Inorganic Phosphorus Flame Retardants

7.3 Market Segment by Structure

7.3.1 World Phosphorus Flame Retardant for Engineering Plastics Production by Structure (2021-2032)

7.3.2 World Phosphorus Flame Retardant for Engineering Plastics Production Value by Structure (2021-2032)

7.3.3 World Phosphorus Flame Retardant for Engineering Plastics Average Price by Structure (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Phosphorus Flame Retardant for Engineering Plastics Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Aerospace

8.2.2 Automotive

8.2.3 Consumer Electronics

8.2.4 Construction & Furniture

8.2.5 Other

8.3 Market Segment by Application

8.3.1 World Phosphorus Flame Retardant for Engineering Plastics Production by Application (2021-2032)

8.3.2 World Phosphorus Flame Retardant for Engineering Plastics Production Value by Application (2021-2032)

8.3.3 World Phosphorus Flame Retardant for Engineering Plastics Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Teijin

9.1.1 Teijin Details

9.1.2 Teijin Major Business

9.1.3 Teijin Phosphorus Flame Retardant for Engineering Plastics Product and Services

9.1.4 Teijin Phosphorus Flame Retardant for Engineering Plastics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Teijin Recent Developments/Updates

9.1.6 Teijin Competitive Strengths & Weaknesses

9.2 ICL

9.2.1 ICL Details

9.2.2 ICL Major Business

9.2.3 ICL Phosphorus Flame Retardant for Engineering Plastics Product and Services

9.2.4 ICL Phosphorus Flame Retardant for Engineering Plastics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 ICL Recent Developments/Updates

9.2.6 ICL Competitive Strengths & Weaknesses

9.3 Zhejiang Wansheng

9.3.1 Zhejiang Wansheng Details

9.3.2 Zhejiang Wansheng Major Business

9.3.3 Zhejiang Wansheng Phosphorus Flame Retardant for Engineering Plastics Product and Services

9.3.4 Zhejiang Wansheng Phosphorus Flame Retardant for Engineering Plastics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Zhejiang Wansheng Recent Developments/Updates

9.3.6 Zhejiang Wansheng Competitive Strengths & Weaknesses

9.4 Jiangsu Yoke Technology

9.4.1 Jiangsu Yoke Technology Details

9.4.2 Jiangsu Yoke Technology Major Business

9.4.3 Jiangsu Yoke Technology Phosphorus Flame Retardant for Engineering Plastics Product and Services

9.4.4 Jiangsu Yoke Technology Phosphorus Flame Retardant for Engineering Plastics

Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Jiangsu Yoke Technology Recent Developments/Updates

9.4.6 Jiangsu Yoke Technology Competitive Strengths & Weaknesses

9.5 GO YEN CHEMICAL INDUSTRIAL

9.5.1 GO YEN CHEMICAL INDUSTRIAL Details

9.5.2 GO YEN CHEMICAL INDUSTRIAL Major Business

9.5.3 GO YEN CHEMICAL INDUSTRIAL Phosphorus Flame Retardant for Engineering Plastics Product and Services

9.5.4 GO YEN CHEMICAL INDUSTRIAL Phosphorus Flame Retardant for Engineering Plastics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 GO YEN CHEMICAL INDUSTRIAL Recent Developments/Updates

9.5.6 GO YEN CHEMICAL INDUSTRIAL Competitive Strengths & Weaknesses

9.6 Daihachi Chemical Industry

9.6.1 Daihachi Chemical Industry Details

9.6.2 Daihachi Chemical Industry Major Business

9.6.3 Daihachi Chemical Industry Phosphorus Flame Retardant for Engineering Plastics Product and Services

9.6.4 Daihachi Chemical Industry Phosphorus Flame Retardant for Engineering Plastics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Daihachi Chemical Industry Recent Developments/Updates

9.6.6 Daihachi Chemical Industry Competitive Strengths & Weaknesses

9.7 ADEKA

9.7.1 ADEKA Details

9.7.2 ADEKA Major Business

9.7.3 ADEKA Phosphorus Flame Retardant for Engineering Plastics Product and Services

9.7.4 ADEKA Phosphorus Flame Retardant for Engineering Plastics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 ADEKA Recent Developments/Updates

9.7.6 ADEKA Competitive Strengths & Weaknesses

9.8 Chang Chun Group

9.8.1 Chang Chun Group Details

9.8.2 Chang Chun Group Major Business

9.8.3 Chang Chun Group Phosphorus Flame Retardant for Engineering Plastics Product and Services

9.8.4 Chang Chun Group Phosphorus Flame Retardant for Engineering Plastics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Chang Chun Group Recent Developments/Updates

- 9.8.6 Chang Chun Group Competitive Strengths & Weaknesses
- 9.9 Totai (Inner Mongolia) Corporation
 - 9.9.1 Totai (Inner Mongolia) Corporation Details
 - 9.9.2 Totai (Inner Mongolia) Corporation Major Business
 - 9.9.3 Totai (Inner Mongolia) Corporation Phosphorus Flame Retardant for Engineering Plastics Product and Services
 - 9.9.4 Totai (Inner Mongolia) Corporation Phosphorus Flame Retardant for Engineering Plastics Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Totai (Inner Mongolia) Corporation Recent Developments/Updates
 - 9.9.6 Totai (Inner Mongolia) Corporation Competitive Strengths & Weaknesses
- 9.10 Shandong Moris Environment Industry
 - 9.10.1 Shandong Moris Environment Industry Details
 - 9.10.2 Shandong Moris Environment Industry Major Business
 - 9.10.3 Shandong Moris Environment Industry Phosphorus Flame Retardant for Engineering Plastics Product and Services
 - 9.10.4 Shandong Moris Environment Industry Phosphorus Flame Retardant for Engineering Plastics Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Shandong Moris Environment Industry Recent Developments/Updates
 - 9.10.6 Shandong Moris Environment Industry Competitive Strengths & Weaknesses
- 9.11 Nantong Jiangshan Agrochemical & Chemicals
 - 9.11.1 Nantong Jiangshan Agrochemical & Chemicals Details
 - 9.11.2 Nantong Jiangshan Agrochemical & Chemicals Major Business
 - 9.11.3 Nantong Jiangshan Agrochemical & Chemicals Phosphorus Flame Retardant for Engineering Plastics Product and Services
 - 9.11.4 Nantong Jiangshan Agrochemical & Chemicals Phosphorus Flame Retardant for Engineering Plastics Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Nantong Jiangshan Agrochemical & Chemicals Recent Developments/Updates
 - 9.11.6 Nantong Jiangshan Agrochemical & Chemicals Competitive Strengths & Weaknesses
- 9.12 Shouguang Weidong Chemical
 - 9.12.1 Shouguang Weidong Chemical Details
 - 9.12.2 Shouguang Weidong Chemical Major Business
 - 9.12.3 Shouguang Weidong Chemical Phosphorus Flame Retardant for Engineering Plastics Product and Services
 - 9.12.4 Shouguang Weidong Chemical Phosphorus Flame Retardant for Engineering Plastics Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Shouguang Weidong Chemical Recent Developments/Updates

- 9.12.6 Shouguang Weidong Chemical Competitive Strengths & Weaknesses
- 9.13 Anhui RunYue Technology
 - 9.13.1 Anhui RunYue Technology Details
 - 9.13.2 Anhui RunYue Technology Major Business
 - 9.13.3 Anhui RunYue Technology Phosphorus Flame Retardant for Engineering Plastics Product and Services
 - 9.13.4 Anhui RunYue Technology Phosphorus Flame Retardant for Engineering Plastics Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Anhui RunYue Technology Recent Developments/Updates
 - 9.13.6 Anhui RunYue Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Phosphorus Flame Retardant for Engineering Plastics Industry Chain
- 10.2 Phosphorus Flame Retardant for Engineering Plastics Upstream Analysis
 - 10.2.1 Phosphorus Flame Retardant for Engineering Plastics Core Raw Materials
 - 10.2.2 Main Manufacturers of Phosphorus Flame Retardant for Engineering Plastics Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Phosphorus Flame Retardant for Engineering Plastics Production Mode
- 10.6 Phosphorus Flame Retardant for Engineering Plastics Procurement Model
- 10.7 Phosphorus Flame Retardant for Engineering Plastics Industry Sales Model and Sales Channels
 - 10.7.1 Phosphorus Flame Retardant for Engineering Plastics Sales Model
 - 10.7.2 Phosphorus Flame Retardant for Engineering Plastics Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Phosphorus Flame Retardant for Engineering Plastics Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Phosphorus Flame Retardant for Engineering Plastics Production Value by Region (2021-2026) & (USD Million)

Table 3. World Phosphorus Flame Retardant for Engineering Plastics Production Value by Region (2027-2032) & (USD Million)

Table 4. World Phosphorus Flame Retardant for Engineering Plastics Production Value Market Share by Region (2021-2026)

Table 5. World Phosphorus Flame Retardant for Engineering Plastics Production Value Market Share by Region (2027-2032)

Table 6. World Phosphorus Flame Retardant for Engineering Plastics Production by Region (2021-2026) & (Tons)

Table 7. World Phosphorus Flame Retardant for Engineering Plastics Production by Region (2027-2032) & (Tons)

Table 8. World Phosphorus Flame Retardant for Engineering Plastics Production Market Share by Region (2021-2026)

Table 9. World Phosphorus Flame Retardant for Engineering Plastics Production Market Share by Region (2027-2032)

Table 10. World Phosphorus Flame Retardant for Engineering Plastics Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Phosphorus Flame Retardant for Engineering Plastics Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Phosphorus Flame Retardant for Engineering Plastics Major Market Trends

Table 13. World Phosphorus Flame Retardant for Engineering Plastics Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Phosphorus Flame Retardant for Engineering Plastics Consumption by Region (2021-2026) & (Tons)

Table 15. World Phosphorus Flame Retardant for Engineering Plastics Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Phosphorus Flame Retardant for Engineering Plastics Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Phosphorus Flame Retardant for Engineering Plastics Producers in 2025

Table 18. World Phosphorus Flame Retardant for Engineering Plastics Production by Manufacturer (2021-2026) & (Tons)

- Table 19. Production Market Share of Key Phosphorus Flame Retardant for Engineering Plastics Producers in 2025
- Table 20. World Phosphorus Flame Retardant for Engineering Plastics Average Price by Manufacturer (2021-2026) & (US\$/Ton)
- Table 21. Global Phosphorus Flame Retardant for Engineering Plastics Company Evaluation Quadrant
- Table 22. World Phosphorus Flame Retardant for Engineering Plastics Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Phosphorus Flame Retardant for Engineering Plastics Production Site of Key Manufacturer
- Table 24. Phosphorus Flame Retardant for Engineering Plastics Market: Company Product Type Footprint
- Table 25. Phosphorus Flame Retardant for Engineering Plastics Market: Company Product Application Footprint
- Table 26. Phosphorus Flame Retardant for Engineering Plastics Competitive Factors
- Table 27. Phosphorus Flame Retardant for Engineering Plastics New Entrant and Capacity Expansion Plans
- Table 28. Phosphorus Flame Retardant for Engineering Plastics Mergers & Acquisitions Activity
- Table 29. United States VS China Phosphorus Flame Retardant for Engineering Plastics Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Phosphorus Flame Retardant for Engineering Plastics Production Comparison, (2021 & 2025 & 2032) & (Tons)
- Table 31. United States VS China Phosphorus Flame Retardant for Engineering Plastics Consumption Comparison, (2021 & 2025 & 2032) & (Tons)
- Table 32. United States Based Phosphorus Flame Retardant for Engineering Plastics Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production Value, (2021-2026) & (USD Million)
- Table 34. United States Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production Value Market Share (2021-2026)
- Table 35. United States Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production (2021-2026) & (Tons)
- Table 36. United States Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production Market Share (2021-2026)
- Table 37. China Based Phosphorus Flame Retardant for Engineering Plastics Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production Market Share (2021-2026)

Table 42. Rest of World Based Phosphorus Flame Retardant for Engineering Plastics Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production Market Share (2021-2026)

Table 47. World Phosphorus Flame Retardant for Engineering Plastics Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Phosphorus Flame Retardant for Engineering Plastics Production by Type (2021-2026) & (Tons)

Table 49. World Phosphorus Flame Retardant for Engineering Plastics Production by Type (2027-2032) & (Tons)

Table 50. World Phosphorus Flame Retardant for Engineering Plastics Production Value by Type (2021-2026) & (USD Million)

Table 51. World Phosphorus Flame Retardant for Engineering Plastics Production Value by Type (2027-2032) & (USD Million)

Table 52. World Phosphorus Flame Retardant for Engineering Plastics Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Phosphorus Flame Retardant for Engineering Plastics Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Phosphorus Flame Retardant for Engineering Plastics Production Value by Variety, (USD Million), 2021 & 2025 & 2032

Table 55. World Phosphorus Flame Retardant for Engineering Plastics Production by Variety (2021-2026) & (Tons)

Table 56. World Phosphorus Flame Retardant for Engineering Plastics Production by Variety (2027-2032) & (Tons)

Table 57. World Phosphorus Flame Retardant for Engineering Plastics Production Value by Variety (2021-2026) & (USD Million)

Table 58. World Phosphorus Flame Retardant for Engineering Plastics Production

Value by Variety (2027-2032) & (USD Million)

Table 59. World Phosphorus Flame Retardant for Engineering Plastics Average Price by Variety (2021-2026) & (US\$/Ton)

Table 60. World Phosphorus Flame Retardant for Engineering Plastics Average Price by Variety (2027-2032) & (US\$/Ton)

Table 61. World Phosphorus Flame Retardant for Engineering Plastics Production Value by Structure, (USD Million), 2021 & 2025 & 2032

Table 62. World Phosphorus Flame Retardant for Engineering Plastics Production by Structure (2021-2026) & (Tons)

Table 63. World Phosphorus Flame Retardant for Engineering Plastics Production by Structure (2027-2032) & (Tons)

Table 64. World Phosphorus Flame Retardant for Engineering Plastics Production Value by Structure (2021-2026) & (USD Million)

Table 65. World Phosphorus Flame Retardant for Engineering Plastics Production Value by Structure (2027-2032) & (USD Million)

Table 66. World Phosphorus Flame Retardant for Engineering Plastics Average Price by Structure (2021-2026) & (US\$/Ton)

Table 67. World Phosphorus Flame Retardant for Engineering Plastics Average Price by Structure (2027-2032) & (US\$/Ton)

Table 68. World Phosphorus Flame Retardant for Engineering Plastics Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Phosphorus Flame Retardant for Engineering Plastics Production by Application (2021-2026) & (Tons)

Table 70. World Phosphorus Flame Retardant for Engineering Plastics Production by Application (2027-2032) & (Tons)

Table 71. World Phosphorus Flame Retardant for Engineering Plastics Production Value by Application (2021-2026) & (USD Million)

Table 72. World Phosphorus Flame Retardant for Engineering Plastics Production Value by Application (2027-2032) & (USD Million)

Table 73. World Phosphorus Flame Retardant for Engineering Plastics Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Phosphorus Flame Retardant for Engineering Plastics Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Teijin Basic Information, Manufacturing Base and Competitors

Table 76. Teijin Major Business

Table 77. Teijin Phosphorus Flame Retardant for Engineering Plastics Product and Services

Table 78. Teijin Phosphorus Flame Retardant for Engineering Plastics Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 79. Teijin Recent Developments/Updates

Table 80. Teijin Competitive Strengths & Weaknesses

Table 81. ICL Basic Information, Manufacturing Base and Competitors

Table 82. ICL Major Business

Table 83. ICL Phosphorus Flame Retardant for Engineering Plastics Product and Services

Table 84. ICL Phosphorus Flame Retardant for Engineering Plastics Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. ICL Recent Developments/Updates

Table 86. ICL Competitive Strengths & Weaknesses

Table 87. Zhejiang Wansheng Basic Information, Manufacturing Base and Competitors

Table 88. Zhejiang Wansheng Major Business

Table 89. Zhejiang Wansheng Phosphorus Flame Retardant for Engineering Plastics Product and Services

Table 90. Zhejiang Wansheng Phosphorus Flame Retardant for Engineering Plastics Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Zhejiang Wansheng Recent Developments/Updates

Table 92. Zhejiang Wansheng Competitive Strengths & Weaknesses

Table 93. Jiangsu Yoke Technology Basic Information, Manufacturing Base and Competitors

Table 94. Jiangsu Yoke Technology Major Business

Table 95. Jiangsu Yoke Technology Phosphorus Flame Retardant for Engineering Plastics Product and Services

Table 96. Jiangsu Yoke Technology Phosphorus Flame Retardant for Engineering Plastics Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Jiangsu Yoke Technology Recent Developments/Updates

Table 98. Jiangsu Yoke Technology Competitive Strengths & Weaknesses

Table 99. GO YEN CHEMICAL INDUSTRIAL Basic Information, Manufacturing Base and Competitors

Table 100. GO YEN CHEMICAL INDUSTRIAL Major Business

Table 101. GO YEN CHEMICAL INDUSTRIAL Phosphorus Flame Retardant for Engineering Plastics Product and Services

Table 102. GO YEN CHEMICAL INDUSTRIAL Phosphorus Flame Retardant for Engineering Plastics Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 103. GO YEN CHEMICAL INDUSTRIAL Recent Developments/Updates
- Table 104. GO YEN CHEMICAL INDUSTRIAL Competitive Strengths & Weaknesses
- Table 105. Daihachi Chemical Industry Basic Information, Manufacturing Base and Competitors
- Table 106. Daihachi Chemical Industry Major Business
- Table 107. Daihachi Chemical Industry Phosphorus Flame Retardant for Engineering Plastics Product and Services
- Table 108. Daihachi Chemical Industry Phosphorus Flame Retardant for Engineering Plastics Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Daihachi Chemical Industry Recent Developments/Updates
- Table 110. Daihachi Chemical Industry Competitive Strengths & Weaknesses
- Table 111. ADEKA Basic Information, Manufacturing Base and Competitors
- Table 112. ADEKA Major Business
- Table 113. ADEKA Phosphorus Flame Retardant for Engineering Plastics Product and Services
- Table 114. ADEKA Phosphorus Flame Retardant for Engineering Plastics Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. ADEKA Recent Developments/Updates
- Table 116. ADEKA Competitive Strengths & Weaknesses
- Table 117. Chang Chun Group Basic Information, Manufacturing Base and Competitors
- Table 118. Chang Chun Group Major Business
- Table 119. Chang Chun Group Phosphorus Flame Retardant for Engineering Plastics Product and Services
- Table 120. Chang Chun Group Phosphorus Flame Retardant for Engineering Plastics Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Chang Chun Group Recent Developments/Updates
- Table 122. Chang Chun Group Competitive Strengths & Weaknesses
- Table 123. Totai (Inner Mongolia) Corporation Basic Information, Manufacturing Base and Competitors
- Table 124. Totai (Inner Mongolia) Corporation Major Business
- Table 125. Totai (Inner Mongolia) Corporation Phosphorus Flame Retardant for Engineering Plastics Product and Services
- Table 126. Totai (Inner Mongolia) Corporation Phosphorus Flame Retardant for Engineering Plastics Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Totai (Inner Mongolia) Corporation Recent Developments/Updates

Table 128. Totai (Inner Mongolia) Corporation Competitive Strengths & Weaknesses

Table 129. Shandong Moris Environment Industry Basic Information, Manufacturing Base and Competitors

Table 130. Shandong Moris Environment Industry Major Business

Table 131. Shandong Moris Environment Industry Phosphorus Flame Retardant for Engineering Plastics Product and Services

Table 132. Shandong Moris Environment Industry Phosphorus Flame Retardant for Engineering Plastics Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Shandong Moris Environment Industry Recent Developments/Updates

Table 134. Shandong Moris Environment Industry Competitive Strengths & Weaknesses

Table 135. Nantong Jiangshan Agrochemical & Chemicals Basic Information, Manufacturing Base and Competitors

Table 136. Nantong Jiangshan Agrochemical & Chemicals Major Business

Table 137. Nantong Jiangshan Agrochemical & Chemicals Phosphorus Flame Retardant for Engineering Plastics Product and Services

Table 138. Nantong Jiangshan Agrochemical & Chemicals Phosphorus Flame Retardant for Engineering Plastics Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Nantong Jiangshan Agrochemical & Chemicals Recent Developments/Updates

Table 140. Nantong Jiangshan Agrochemical & Chemicals Competitive Strengths & Weaknesses

Table 141. Shouguang Weidong Chemical Basic Information, Manufacturing Base and Competitors

Table 142. Shouguang Weidong Chemical Major Business

Table 143. Shouguang Weidong Chemical Phosphorus Flame Retardant for Engineering Plastics Product and Services

Table 144. Shouguang Weidong Chemical Phosphorus Flame Retardant for Engineering Plastics Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Shouguang Weidong Chemical Recent Developments/Updates

Table 146. Shouguang Weidong Chemical Competitive Strengths & Weaknesses

Table 147. Anhui RunYue Technology Basic Information, Manufacturing Base and Competitors

Table 148. Anhui RunYue Technology Major Business

Table 149. Anhui RunYue Technology Phosphorus Flame Retardant for Engineering Plastics Product and Services

Table 150. Anhui RunYue Technology Phosphorus Flame Retardant for Engineering Plastics Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Anhui RunYue Technology Recent Developments/Updates

Table 152. Anhui RunYue Technology Competitive Strengths & Weaknesses

Table 153. Global Key Players of Phosphorus Flame Retardant for Engineering Plastics Upstream (Raw Materials)

Table 154. Global Phosphorus Flame Retardant for Engineering Plastics Typical Customers

Table 155. Phosphorus Flame Retardant for Engineering Plastics Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Phosphorus Flame Retardant for Engineering Plastics Picture
- Figure 2. World Phosphorus Flame Retardant for Engineering Plastics Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Phosphorus Flame Retardant for Engineering Plastics Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Phosphorus Flame Retardant for Engineering Plastics Production (2021-2032) & (Tons)
- Figure 5. World Phosphorus Flame Retardant for Engineering Plastics Average Price (2021-2032) & (US\$/Ton)
- Figure 6. World Phosphorus Flame Retardant for Engineering Plastics Production Value Market Share by Region (2021-2032)
- Figure 7. World Phosphorus Flame Retardant for Engineering Plastics Production Market Share by Region (2021-2032)
- Figure 8. North America Phosphorus Flame Retardant for Engineering Plastics Production (2021-2032) & (Tons)
- Figure 9. Europe Phosphorus Flame Retardant for Engineering Plastics Production (2021-2032) & (Tons)
- Figure 10. China Phosphorus Flame Retardant for Engineering Plastics Production (2021-2032) & (Tons)
- Figure 11. Japan Phosphorus Flame Retardant for Engineering Plastics Production (2021-2032) & (Tons)
- Figure 12. Phosphorus Flame Retardant for Engineering Plastics Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Phosphorus Flame Retardant for Engineering Plastics Consumption (2021-2032) & (Tons)
- Figure 15. World Phosphorus Flame Retardant for Engineering Plastics Consumption Market Share by Region (2021-2032)
- Figure 16. United States Phosphorus Flame Retardant for Engineering Plastics Consumption (2021-2032) & (Tons)
- Figure 17. China Phosphorus Flame Retardant for Engineering Plastics Consumption (2021-2032) & (Tons)
- Figure 18. Europe Phosphorus Flame Retardant for Engineering Plastics Consumption (2021-2032) & (Tons)
- Figure 19. Japan Phosphorus Flame Retardant for Engineering Plastics Consumption (2021-2032) & (Tons)

Figure 20. South Korea Phosphorus Flame Retardant for Engineering Plastics Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Phosphorus Flame Retardant for Engineering Plastics Consumption (2021-2032) & (Tons)

Figure 22. India Phosphorus Flame Retardant for Engineering Plastics Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Phosphorus Flame Retardant for Engineering Plastics by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Phosphorus Flame Retardant for Engineering Plastics Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Phosphorus Flame Retardant for Engineering Plastics Markets in 2025

Figure 26. United States VS China: Phosphorus Flame Retardant for Engineering Plastics Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Phosphorus Flame Retardant for Engineering Plastics Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Phosphorus Flame Retardant for Engineering Plastics Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production Market Share 2025

Figure 30. China Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Phosphorus Flame Retardant for Engineering Plastics Production Market Share 2025

Figure 32. World Phosphorus Flame Retardant for Engineering Plastics Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Phosphorus Flame Retardant for Engineering Plastics Production Value Market Share by Type in 2025

Figure 34. Chlorophosphate Ester

Figure 35. Halogen-Free Phosphate Ester

Figure 36. Hypophosphate

Figure 37. Other

Figure 38. World Phosphorus Flame Retardant for Engineering Plastics Production Market Share by Type (2021-2032)

Figure 39. World Phosphorus Flame Retardant for Engineering Plastics Production Value Market Share by Type (2021-2032)

Figure 40. World Phosphorus Flame Retardant for Engineering Plastics Average Price by Type (2021-2032) & (US\$/Ton)

Figure 41. World Phosphorus Flame Retardant for Engineering Plastics Production

Value by Variety, (USD Million), 2021 & 2025 & 2032

Figure 42. World Phosphorus Flame Retardant for Engineering Plastics Production

Value Market Share by Variety in 2025

Figure 43. Triphenyl Phosphate (TPP)

Figure 44. Resorcinol Bis(Diphenyl Phosphate) (RDP)

Figure 45. BDP

Figure 46. Others

Figure 47. World Phosphorus Flame Retardant for Engineering Plastics Production

Market Share by Variety (2021-2032)

Figure 48. World Phosphorus Flame Retardant for Engineering Plastics Production

Value Market Share by Variety (2021-2032)

Figure 49. World Phosphorus Flame Retardant for Engineering Plastics Average Price
by Variety (2021-2032) & (US\$/Ton)

Figure 50. World Phosphorus Flame Retardant for Engineering Plastics Production

Value by Structure, (USD Million), 2021 & 2025 & 2032

Figure 51. World Phosphorus Flame Retardant for Engineering Plastics Production

Value Market Share by Structure in 2025

Figure 52. Organophosphorus Flame Retardants

Figure 53. Inorganic Phosphorus Flame Retardants

Figure 54. World Phosphorus Flame Retardant for Engineering Plastics Production

Market Share by Structure (2021-2032)

Figure 55. World Phosphorus Flame Retardant for Engineering Plastics Production

Value Market Share by Structure (2021-2032)

Figure 56. World Phosphorus Flame Retardant for Engineering Plastics Average Price
by Structure (2021-2032) & (US\$/Ton)

Figure 57. World Phosphorus Flame Retardant for Engineering Plastics Production

Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Phosphorus Flame Retardant for Engineering Plastics Production

Value Market Share by Application in 2025

Figure 59. Aerospace

Figure 60. Automotive

Figure 61. Consumer Electronics

Figure 62. Construction & Furniture

Figure 63. Other

Figure 64. World Phosphorus Flame Retardant for Engineering Plastics Production

Market Share by Application (2021-2032)

Figure 65. World Phosphorus Flame Retardant for Engineering Plastics Production

Value Market Share by Application (2021-2032)

Figure 66. World Phosphorus Flame Retardant for Engineering Plastics Average Price

by Application (2021-2032) & (US\$/Ton)

Figure 67. Phosphorus Flame Retardant for Engineering Plastics Industry Chain

Figure 68. Phosphorus Flame Retardant for Engineering Plastics Procurement Model

Figure 69. Phosphorus Flame Retardant for Engineering Plastics Sales Model

Figure 70. Phosphorus Flame Retardant for Engineering Plastics Sales Channels,
Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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