

Global Bio-based Polyethylene Furanoate (PEF) Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Bio-based Polyethylene Furanoate (PEF) market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Bio-based polyethylene furanyl dicarboxylate (PEF) is a 100% recyclable bio-based polymer produced from renewable raw materials derived from plants. Called the next generation of polyesters, PEF has great potential to replace polyethylene terephthalate (PET), a durable polymer derived from traditional synthetic resources. PEF is still an emerging material and no manufacturer has yet commercialized it. The synthesis technology of PEF and its key monomers is still very challenging and has not yet been industrialized; at the same time, studies of PE structural properties have shown some deficiencies in its performance and modifications are needed to facilitate the processing and application of PEF. PEF offers many advantages over PET, such as superior oxygen and carbon dioxide barriers, so it can keep food and beverages fresher longer by blocking the entry of oxygen and CO₂; it is lightweight, has excellent mechanical and thermal properties, and is potentially cost-competitive on an industrial scale over the long term. However, today there are no PEF bottles per se, and disrupting PET will require not only new material production routes and capabilities, but also new conversion and recycling methods and capabilities.

The major global producers of bio-based polyethylene furanyl dicarboxylate are Avantium, GuoShengTech, Sugarenergy, AVA Biochem AG, Sulzer, Corbion, Leafresource, etc. The top seven producers together account for more than 95% of the market share, with the largest producer being Avantium with 67.86% of the market share. The largest producer is Avantium with 67.86% market share. The global PEF production regions are mainly located in Europe, China, etc. In terms of product

category, food-grade bio-based poly furanyl dicarboxylate has a higher market share of 66.67%, while industrial grade has a lower share. In terms of its applications, food and beverage packaging bottles are its top application area with a market share of 85.716%, followed by films and fibers.

This report studies the global Bio-based Polyethylene Furanoate (PEF) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bio-based Polyethylene Furanoate (PEF), and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Bio-based Polyethylene Furanoate (PEF) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bio-based Polyethylene Furanoate (PEF) total production and demand, 2018-2029, (Kg)

Global Bio-based Polyethylene Furanoate (PEF) total production value, 2018-2029, (USD Million)

Global Bio-based Polyethylene Furanoate (PEF) production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Kg)

Global Bio-based Polyethylene Furanoate (PEF) consumption by region & country, CAGR, 2018-2029 & (Kg)

U.S. VS China: Bio-based Polyethylene Furanoate (PEF) domestic production, consumption, key domestic manufacturers and share

Global Bio-based Polyethylene Furanoate (PEF) production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Kg)

Global Bio-based Polyethylene Furanoate (PEF) production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Kg)

Global Bio-based Polyethylene Furanoate (PEF) production by Application production, value, CAGR, 2018-2029, (USD Million) & (Kg)

This reports profiles key players in the global Bio-based Polyethylene Furanoate (PEF) 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 Avantium, GuoShengTech, Sugarenergy, AVA Biochem AG, Sulzer, Corbion and Leafresource, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Bio-based Polyethylene Furanoate (PEF) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kg) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Bio-based Polyethylene Furanoate (PEF) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bio-based Polyethylene Furanoate (PEF) Market, Segmentation by Type

Food Grade

Non-Food Grade

Global Bio-based Polyethylene Furanoate (PEF) Market, Segmentation by Application

Bottle

Fiber

Film

Companies Profiled:

Avantium

GuoShengTech

Sugarenergy

AVA Biochem AG

Sulzer

Corbion

Leafresource

Key Questions Answered

1. How big is the global Bio-based Polyethylene Furanoate (PEF) market?
2. What is the demand of the global Bio-based Polyethylene Furanoate (PEF) market?

3. What is the year over year growth of the global Bio-based Polyethylene Furanoate (PEF) market?
4. What is the production and production value of the global Bio-based Polyethylene Furanoate (PEF) market?
5. Who are the key producers in the global Bio-based Polyethylene Furanoate (PEF) market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Bio-based Polyethylene Furanoate (PEF) Introduction
- 1.2 World Bio-based Polyethylene Furanoate (PEF) Supply & Forecast
 - 1.2.1 World Bio-based Polyethylene Furanoate (PEF) Production Value (2018 & 2022 & 2029)
 - 1.2.2 World Bio-based Polyethylene Furanoate (PEF) Production (2018-2029)
 - 1.2.3 World Bio-based Polyethylene Furanoate (PEF) Pricing Trends (2018-2029)
- 1.3 World Bio-based Polyethylene Furanoate (PEF) Production by Region (Based on Production Site)
 - 1.3.1 World Bio-based Polyethylene Furanoate (PEF) Production Value by Region (2018-2029)
 - 1.3.2 World Bio-based Polyethylene Furanoate (PEF) Production by Region (2018-2029)
 - 1.3.3 World Bio-based Polyethylene Furanoate (PEF) Average Price by Region (2018-2029)
 - 1.3.4 China Bio-based Polyethylene Furanoate (PEF) Production (2018-2029)
 - 1.3.5 Europe Bio-based Polyethylene Furanoate (PEF) Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Bio-based Polyethylene Furanoate (PEF) Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Bio-based Polyethylene Furanoate (PEF) Major Market Trends
- 1.5 Influence of COVID-19 and Russia-Ukraine War
 - 1.5.1 Influence of COVID-19
 - 1.5.2 Influence of Russia-Ukraine War

2 DEMAND SUMMARY

- 2.1 World Bio-based Polyethylene Furanoate (PEF) Demand (2018-2029)
- 2.2 World Bio-based Polyethylene Furanoate (PEF) Consumption by Region
 - 2.2.1 World Bio-based Polyethylene Furanoate (PEF) Consumption by Region (2018-2023)
 - 2.2.2 World Bio-based Polyethylene Furanoate (PEF) Consumption Forecast by Region (2024-2029)
- 2.3 United States Bio-based Polyethylene Furanoate (PEF) Consumption (2018-2029)
- 2.4 China Bio-based Polyethylene Furanoate (PEF) Consumption (2018-2029)
- 2.5 Europe Bio-based Polyethylene Furanoate (PEF) Consumption (2018-2029)

- 2.6 Japan Bio-based Polyethylene Furanoate (PEF) Consumption (2018-2029)
- 2.7 South Korea Bio-based Polyethylene Furanoate (PEF) Consumption (2018-2029)
- 2.8 ASEAN Bio-based Polyethylene Furanoate (PEF) Consumption (2018-2029)
- 2.9 India Bio-based Polyethylene Furanoate (PEF) Consumption (2018-2029)

3 WORLD BIO-BASED POLYETHYLENE FURANOATE (PEF) MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Bio-based Polyethylene Furanoate (PEF) Production Value by Manufacturer (2018-2023)
- 3.2 World Bio-based Polyethylene Furanoate (PEF) Production by Manufacturer (2018-2023)
- 3.3 World Bio-based Polyethylene Furanoate (PEF) Average Price by Manufacturer (2018-2023)
- 3.4 Bio-based Polyethylene Furanoate (PEF) Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Bio-based Polyethylene Furanoate (PEF) Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Bio-based Polyethylene Furanoate (PEF) in 2022
 - 3.5.3 Global Concentration Ratios (CR8) for Bio-based Polyethylene Furanoate (PEF) in 2022
- 3.6 Bio-based Polyethylene Furanoate (PEF) Market: Overall Company Footprint Analysis
 - 3.6.1 Bio-based Polyethylene Furanoate (PEF) Market: Region Footprint
 - 3.6.2 Bio-based Polyethylene Furanoate (PEF) Market: Company Product Type Footprint
 - 3.6.3 Bio-based Polyethylene Furanoate (PEF) 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: Bio-based Polyethylene Furanoate (PEF) Production Value

Comparison

4.1.1 United States VS China: Bio-based Polyethylene Furanoate (PEF) Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: Bio-based Polyethylene Furanoate (PEF) Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: Bio-based Polyethylene Furanoate (PEF) Production Comparison

4.2.1 United States VS China: Bio-based Polyethylene Furanoate (PEF) Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: Bio-based Polyethylene Furanoate (PEF) Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: Bio-based Polyethylene Furanoate (PEF) Consumption Comparison

4.3.1 United States VS China: Bio-based Polyethylene Furanoate (PEF) Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: Bio-based Polyethylene Furanoate (PEF) Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based Bio-based Polyethylene Furanoate (PEF) Manufacturers and Market Share, 2018-2023

4.4.1 United States Based Bio-based Polyethylene Furanoate (PEF) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production Value (2018-2023)

4.4.3 United States Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production (2018-2023)

4.5 China Based Bio-based Polyethylene Furanoate (PEF) Manufacturers and Market Share

4.5.1 China Based Bio-based Polyethylene Furanoate (PEF) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production Value (2018-2023)

4.5.3 China Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production (2018-2023)

4.6 Rest of World Based Bio-based Polyethylene Furanoate (PEF) Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based Bio-based Polyethylene Furanoate (PEF) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World Bio-based Polyethylene Furanoate (PEF) Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 Food Grade

5.2.2 Non-Food Grade

5.3 Market Segment by Type

5.3.1 World Bio-based Polyethylene Furanoate (PEF) Production by Type (2018-2029)

5.3.2 World Bio-based Polyethylene Furanoate (PEF) Production Value by Type (2018-2029)

5.3.3 World Bio-based Polyethylene Furanoate (PEF) Average Price by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Bio-based Polyethylene Furanoate (PEF) Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Bottle

6.2.2 Fiber

6.2.3 Film

6.3 Market Segment by Application

6.3.1 World Bio-based Polyethylene Furanoate (PEF) Production by Application (2018-2029)

6.3.2 World Bio-based Polyethylene Furanoate (PEF) Production Value by Application (2018-2029)

6.3.3 World Bio-based Polyethylene Furanoate (PEF) Average Price by Application (2018-2029)

7 COMPANY PROFILES

7.1 Avantium

7.1.1 Avantium Details

7.1.2 Avantium Major Business

7.1.3 Avantium Bio-based Polyethylene Furanoate (PEF) Product and Services

7.1.4 Avantium Bio-based Polyethylene Furanoate (PEF) Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 Avantium Recent Developments/Updates

7.1.6 Avantium Competitive Strengths & Weaknesses

7.2 GuoShengTech

7.2.1 GuoShengTech Details

7.2.2 GuoShengTech Major Business

7.2.3 GuoShengTech Bio-based Polyethylene Furanoate (PEF) Product and Services

7.2.4 GuoShengTech Bio-based Polyethylene Furanoate (PEF) Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 GuoShengTech Recent Developments/Updates

7.2.6 GuoShengTech Competitive Strengths & Weaknesses

7.3 Sugarenergy

7.3.1 Sugarenergy Details

7.3.2 Sugarenergy Major Business

7.3.3 Sugarenergy Bio-based Polyethylene Furanoate (PEF) Product and Services

7.3.4 Sugarenergy Bio-based Polyethylene Furanoate (PEF) Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.3.5 Sugarenergy Recent Developments/Updates

7.3.6 Sugarenergy Competitive Strengths & Weaknesses

7.4 AVA Biochem AG

7.4.1 AVA Biochem AG Details

7.4.2 AVA Biochem AG Major Business

7.4.3 AVA Biochem AG Bio-based Polyethylene Furanoate (PEF) Product and Services

7.4.4 AVA Biochem AG Bio-based Polyethylene Furanoate (PEF) Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.4.5 AVA Biochem AG Recent Developments/Updates

7.4.6 AVA Biochem AG Competitive Strengths & Weaknesses

7.5 Sulzer

7.5.1 Sulzer Details

7.5.2 Sulzer Major Business

7.5.3 Sulzer Bio-based Polyethylene Furanoate (PEF) Product and Services

7.5.4 Sulzer Bio-based Polyethylene Furanoate (PEF) Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.5.5 Sulzer Recent Developments/Updates

7.5.6 Sulzer Competitive Strengths & Weaknesses

7.6 Corbion

7.6.1 Corbion Details

- 7.6.2 Corbion Major Business
- 7.6.3 Corbion Bio-based Polyethylene Furanoate (PEF) Product and Services
- 7.6.4 Corbion Bio-based Polyethylene Furanoate (PEF) Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.6.5 Corbion Recent Developments/Updates
- 7.6.6 Corbion Competitive Strengths & Weaknesses
- 7.7 Leafresource
 - 7.7.1 Leafresource Details
 - 7.7.2 Leafresource Major Business
 - 7.7.3 Leafresource Bio-based Polyethylene Furanoate (PEF) Product and Services
 - 7.7.4 Leafresource Bio-based Polyethylene Furanoate (PEF) Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.7.5 Leafresource Recent Developments/Updates
 - 7.7.6 Leafresource Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

- 8.1 Bio-based Polyethylene Furanoate (PEF) Industry Chain
- 8.2 Bio-based Polyethylene Furanoate (PEF) Upstream Analysis
 - 8.2.1 Bio-based Polyethylene Furanoate (PEF) Core Raw Materials
 - 8.2.2 Main Manufacturers of Bio-based Polyethylene Furanoate (PEF) Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 Bio-based Polyethylene Furanoate (PEF) Production Mode
- 8.6 Bio-based Polyethylene Furanoate (PEF) Procurement Model
- 8.7 Bio-based Polyethylene Furanoate (PEF) Industry Sales Model and Sales Channels
 - 8.7.1 Bio-based Polyethylene Furanoate (PEF) Sales Model
 - 8.7.2 Bio-based Polyethylene Furanoate (PEF) Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Bio-based Polyethylene Furanoate (PEF) Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World Bio-based Polyethylene Furanoate (PEF) Production Value by Region (2018-2023) & (USD Million)

Table 3. World Bio-based Polyethylene Furanoate (PEF) Production Value by Region (2024-2029) & (USD Million)

Table 4. World Bio-based Polyethylene Furanoate (PEF) Production Value Market Share by Region (2018-2023)

Table 5. World Bio-based Polyethylene Furanoate (PEF) Production Value Market Share by Region (2024-2029)

Table 6. World Bio-based Polyethylene Furanoate (PEF) Production by Region (2018-2023) & (Kg)

Table 7. World Bio-based Polyethylene Furanoate (PEF) Production by Region (2024-2029) & (Kg)

Table 8. World Bio-based Polyethylene Furanoate (PEF) Production Market Share by Region (2018-2023)

Table 9. World Bio-based Polyethylene Furanoate (PEF) Production Market Share by Region (2024-2029)

Table 10. World Bio-based Polyethylene Furanoate (PEF) Average Price by Region (2018-2023) & (US\$/Ton)

Table 11. World Bio-based Polyethylene Furanoate (PEF) Average Price by Region (2024-2029) & (US\$/Ton)

Table 12. Bio-based Polyethylene Furanoate (PEF) Major Market Trends

Table 13. World Bio-based Polyethylene Furanoate (PEF) Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (Kg)

Table 14. World Bio-based Polyethylene Furanoate (PEF) Consumption by Region (2018-2023) & (Kg)

Table 15. World Bio-based Polyethylene Furanoate (PEF) Consumption Forecast by Region (2024-2029) & (Kg)

Table 16. World Bio-based Polyethylene Furanoate (PEF) Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key Bio-based Polyethylene Furanoate (PEF) Producers in 2022

Table 18. World Bio-based Polyethylene Furanoate (PEF) Production by Manufacturer (2018-2023) & (Kg)

Table 19. Production Market Share of Key Bio-based Polyethylene Furanoate (PEF) Producers in 2022

Table 20. World Bio-based Polyethylene Furanoate (PEF) Average Price by Manufacturer (2018-2023) & (US\$/Ton)

Table 21. Global Bio-based Polyethylene Furanoate (PEF) Company Evaluation Quadrant

Table 22. World Bio-based Polyethylene Furanoate (PEF) Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and Bio-based Polyethylene Furanoate (PEF) Production Site of Key Manufacturer

Table 24. Bio-based Polyethylene Furanoate (PEF) Market: Company Product Type Footprint

Table 25. Bio-based Polyethylene Furanoate (PEF) Market: Company Product Application Footprint

Table 26. Bio-based Polyethylene Furanoate (PEF) Competitive Factors

Table 27. Bio-based Polyethylene Furanoate (PEF) New Entrant and Capacity Expansion Plans

Table 28. Bio-based Polyethylene Furanoate (PEF) Mergers & Acquisitions Activity

Table 29. United States VS China Bio-based Polyethylene Furanoate (PEF) Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China Bio-based Polyethylene Furanoate (PEF) Production Comparison, (2018 & 2022 & 2029) & (Kg)

Table 31. United States VS China Bio-based Polyethylene Furanoate (PEF) Consumption Comparison, (2018 & 2022 & 2029) & (Kg)

Table 32. United States Based Bio-based Polyethylene Furanoate (PEF) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production (2018-2023) & (Kg)

Table 36. United States Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production Market Share (2018-2023)

Table 37. China Based Bio-based Polyethylene Furanoate (PEF) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers Bio-based Polyethylene Furanoate (PEF)

Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production (2018-2023) & (Kg)

Table 41. China Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production Market Share (2018-2023)

Table 42. Rest of World Based Bio-based Polyethylene Furanoate (PEF) Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production (2018-2023) & (Kg)

Table 46. Rest of World Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production Market Share (2018-2023)

Table 47. World Bio-based Polyethylene Furanoate (PEF) Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World Bio-based Polyethylene Furanoate (PEF) Production by Type (2018-2023) & (Kg)

Table 49. World Bio-based Polyethylene Furanoate (PEF) Production by Type (2024-2029) & (Kg)

Table 50. World Bio-based Polyethylene Furanoate (PEF) Production Value by Type (2018-2023) & (USD Million)

Table 51. World Bio-based Polyethylene Furanoate (PEF) Production Value by Type (2024-2029) & (USD Million)

Table 52. World Bio-based Polyethylene Furanoate (PEF) Average Price by Type (2018-2023) & (US\$/Ton)

Table 53. World Bio-based Polyethylene Furanoate (PEF) Average Price by Type (2024-2029) & (US\$/Ton)

Table 54. World Bio-based Polyethylene Furanoate (PEF) Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World Bio-based Polyethylene Furanoate (PEF) Production by Application (2018-2023) & (Kg)

Table 56. World Bio-based Polyethylene Furanoate (PEF) Production by Application (2024-2029) & (Kg)

Table 57. World Bio-based Polyethylene Furanoate (PEF) Production Value by Application (2018-2023) & (USD Million)

Table 58. World Bio-based Polyethylene Furanoate (PEF) Production Value by Application (2024-2029) & (USD Million)

Table 59. World Bio-based Polyethylene Furanoate (PEF) Average Price by Application (2018-2023) & (US\$/Ton)

Table 60. World Bio-based Polyethylene Furanoate (PEF) Average Price by Application (2024-2029) & (US\$/Ton)

Table 61. Avantium Basic Information, Manufacturing Base and Competitors

Table 62. Avantium Major Business

Table 63. Avantium Bio-based Polyethylene Furanoate (PEF) Product and Services

Table 64. Avantium Bio-based Polyethylene Furanoate (PEF) Production (Kg), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. Avantium Recent Developments/Updates

Table 66. Avantium Competitive Strengths & Weaknesses

Table 67. GuoShengTech Basic Information, Manufacturing Base and Competitors

Table 68. GuoShengTech Major Business

Table 69. GuoShengTech Bio-based Polyethylene Furanoate (PEF) Product and Services

Table 70. GuoShengTech Bio-based Polyethylene Furanoate (PEF) Production (Kg), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. GuoShengTech Recent Developments/Updates

Table 72. GuoShengTech Competitive Strengths & Weaknesses

Table 73. Sugarenergy Basic Information, Manufacturing Base and Competitors

Table 74. Sugarenergy Major Business

Table 75. Sugarenergy Bio-based Polyethylene Furanoate (PEF) Product and Services

Table 76. Sugarenergy Bio-based Polyethylene Furanoate (PEF) Production (Kg), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Sugarenergy Recent Developments/Updates

Table 78. Sugarenergy Competitive Strengths & Weaknesses

Table 79. AVA Biochem AG Basic Information, Manufacturing Base and Competitors

Table 80. AVA Biochem AG Major Business

Table 81. AVA Biochem AG Bio-based Polyethylene Furanoate (PEF) Product and Services

Table 82. AVA Biochem AG Bio-based Polyethylene Furanoate (PEF) Production (Kg), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 83. AVA Biochem AG Recent Developments/Updates

Table 84. AVA Biochem AG Competitive Strengths & Weaknesses

Table 85. Sulzer Basic Information, Manufacturing Base and Competitors

Table 86. Sulzer Major Business

Table 87. Sulzer Bio-based Polyethylene Furanoate (PEF) Product and Services

Table 88. Sulzer Bio-based Polyethylene Furanoate (PEF) Production (Kg), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 89. Sulzer Recent Developments/Updates

Table 90. Sulzer Competitive Strengths & Weaknesses

Table 91. Corbion Basic Information, Manufacturing Base and Competitors

Table 92. Corbion Major Business

Table 93. Corbion Bio-based Polyethylene Furanoate (PEF) Product and Services

Table 94. Corbion Bio-based Polyethylene Furanoate (PEF) Production (Kg), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 95. Corbion Recent Developments/Updates

Table 96. Leafresource Basic Information, Manufacturing Base and Competitors

Table 97. Leafresource Major Business

Table 98. Leafresource Bio-based Polyethylene Furanoate (PEF) Product and Services

Table 99. Leafresource Bio-based Polyethylene Furanoate (PEF) Production (Kg), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 100. Global Key Players of Bio-based Polyethylene Furanoate (PEF) Upstream (Raw Materials)

Table 101. Bio-based Polyethylene Furanoate (PEF) Typical Customers

Table 102. Bio-based Polyethylene Furanoate (PEF) Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Bio-based Polyethylene Furanoate (PEF) Picture

Figure 2. World Bio-based Polyethylene Furanoate (PEF) Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World Bio-based Polyethylene Furanoate (PEF) Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World Bio-based Polyethylene Furanoate (PEF) Production (2018-2029) & (Kg)

Figure 5. World Bio-based Polyethylene Furanoate (PEF) Average Price (2018-2029) & (US\$/Ton)

Figure 6. World Bio-based Polyethylene Furanoate (PEF) Production Value Market Share by Region (2018-2029)

Figure 7. World Bio-based Polyethylene Furanoate (PEF) Production Market Share by Region (2018-2029)

Figure 8. China Bio-based Polyethylene Furanoate (PEF) Production (2018-2029) & (Kg)

Figure 9. Europe Bio-based Polyethylene Furanoate (PEF) Production (2018-2029) & (Kg)

Figure 10. Bio-based Polyethylene Furanoate (PEF) Market Drivers

Figure 11. Factors Affecting Demand

Figure 12. World Bio-based Polyethylene Furanoate (PEF) Consumption (2018-2029) & (Kg)

Figure 13. World Bio-based Polyethylene Furanoate (PEF) Consumption Market Share by Region (2018-2029)

Figure 14. United States Bio-based Polyethylene Furanoate (PEF) Consumption (2018-2029) & (Kg)

Figure 15. China Bio-based Polyethylene Furanoate (PEF) Consumption (2018-2029) & (Kg)

Figure 16. Europe Bio-based Polyethylene Furanoate (PEF) Consumption (2018-2029) & (Kg)

Figure 17. Japan Bio-based Polyethylene Furanoate (PEF) Consumption (2018-2029) & (Kg)

Figure 18. South Korea Bio-based Polyethylene Furanoate (PEF) Consumption (2018-2029) & (Kg)

Figure 19. ASEAN Bio-based Polyethylene Furanoate (PEF) Consumption (2018-2029) & (Kg)

Figure 20. India Bio-based Polyethylene Furanoate (PEF) Consumption (2018-2029) & (Kg)

Figure 21. Producer Shipments of Bio-based Polyethylene Furanoate (PEF) by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 22. Global Four-firm Concentration Ratios (CR4) for Bio-based Polyethylene Furanoate (PEF) Markets in 2022

Figure 23. Global Four-firm Concentration Ratios (CR8) for Bio-based Polyethylene Furanoate (PEF) Markets in 2022

Figure 24. United States VS China: Bio-based Polyethylene Furanoate (PEF) Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 25. United States VS China: Bio-based Polyethylene Furanoate (PEF) Production Market Share Comparison (2018 & 2022 & 2029)

Figure 26. United States VS China: Bio-based Polyethylene Furanoate (PEF) Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 27. United States Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production Market Share 2022

Figure 28. China Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production Market Share 2022

Figure 29. Rest of World Based Manufacturers Bio-based Polyethylene Furanoate (PEF) Production Market Share 2022

Figure 30. World Bio-based Polyethylene Furanoate (PEF) Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 31. World Bio-based Polyethylene Furanoate (PEF) Production Value Market Share by Type in 2022

Figure 32. Food Grade

Figure 33. Non-Food Grade

Figure 34. World Bio-based Polyethylene Furanoate (PEF) Production Market Share by Type (2018-2029)

Figure 35. World Bio-based Polyethylene Furanoate (PEF) Production Value Market Share by Type (2018-2029)

Figure 36. World Bio-based Polyethylene Furanoate (PEF) Average Price by Type (2018-2029) & (US\$/Ton)

Figure 37. World Bio-based Polyethylene Furanoate (PEF) Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 38. World Bio-based Polyethylene Furanoate (PEF) Production Value Market Share by Application in 2022

Figure 39. Bottle

Figure 40. Fiber

Figure 41. Film

Figure 42. World Bio-based Polyethylene Furanoate (PEF) Production Market Share by Application (2018-2029)

Figure 43. World Bio-based Polyethylene Furanoate (PEF) Production Value Market Share by Application (2018-2029)

Figure 44. World Bio-based Polyethylene Furanoate (PEF) Average Price by Application (2018-2029) & (US\$/Ton)

Figure 45. Bio-based Polyethylene Furanoate (PEF) Industry Chain

Figure 46. Bio-based Polyethylene Furanoate (PEF) Procurement Model

Figure 47. Bio-based Polyethylene Furanoate (PEF) Sales Model

Figure 48. Bio-based Polyethylene Furanoate (PEF) Sales Channels, Direct Sales, and Distribution

Figure 49. Methodology

Figure 50. Research Process and Data Source

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