

Global Polyimide Optical Fibre Supply, Demand and Key Producers, 2024-2030

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Abstracts

The global Polyimide Optical Fibre market size is expected to reach \$ 550.3 million by 2030, rising at a market growth of 5.0% CAGR during the forecast period (2024-2030).

The market for polyimide-coated optical fiber is experiencing growth driven by the demand for high-performance optical communication solutions in various industries. Polyimide-coated optical fiber is valued for its robustness, high-temperature resistance, and suitability for harsh environments, making it ideal for applications in aerospace, telecommunications, and medical devices. The market's development is propelled by the increasing need for reliable and durable optical communication systems, particularly in data centers, telecommunications networks, and emerging technologies like 5G.

Development drivers for the polyimide-coated optical fiber market include the rapid expansion of data communication infrastructure, the deployment of high-speed broadband networks, and the continuous evolution of wireless communication technologies. The aerospace industry contributes significantly to the market, where polyimide-coated optical fibers are used for their lightweight and durable characteristics. The increasing demand for bandwidth-intensive applications, such as streaming services and cloud computing, further boosts the need for high-performance optical fibers in data transmission.

Constraints in the market may include challenges related to manufacturing costs, as polyimide coatings can be more expensive compared to traditional coatings. Additionally, the specialized nature of certain applications, such as aerospace and medical devices, may limit the overall volume of the market. Stricter regulatory standards and certification requirements in certain industries can also present challenges for market players.

Looking ahead, future development trends in the polyimide-coated optical fiber market are likely to focus on advancements in manufacturing processes to optimize costs and improve scalability. The integration of polyimide-coated fibers in emerging technologies like the Internet of Things (IoT) and 5G networks is expected to drive continued growth. Research and development efforts may explore further enhancements in fiber performance, including increased data transfer speeds and longer transmission distances. Additionally, the demand for flexible and bend-resistant optical fibers may influence product innovations to meet evolving connectivity needs. Overall, the future of polyimide-coated optical fiber appears promising, with ongoing technological advancements and the increasing reliance on high-speed communication networks fueling its adoption in diverse industries.

This report studies the global Polyimide Optical Fibre production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Polyimide Optical Fibre, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2023 as the base year. This report explores demand trends and competition, as well as details the characteristics of Polyimide Optical Fibre that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Polyimide Optical Fibre total production and demand, 2019-2030, (Km)

Global Polyimide Optical Fibre total production value, 2019-2030, (USD Million)

Global Polyimide Optical Fibre production by region & country, production, value, CAGR, 2019-2030, (USD Million) & (Km)

Global Polyimide Optical Fibre consumption by region & country, CAGR, 2019-2030 & (Km)

U.S. VS China: Polyimide Optical Fibre domestic production, consumption, key domestic manufacturers and share

Global Polyimide Optical Fibre production by manufacturer, production, price, value and market share 2019-2024, (USD Million) & (Km)

Global Polyimide Optical Fibre production by Type, production, value, CAGR, 2019-2030, (USD Million) & (Km)

Global Polyimide Optical Fibre production by Application production, value, CAGR, 2019-2030, (USD Million) & (Km).

This reports profiles key players in the global Polyimide Optical Fibre 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 Fibercore, Corning Optical Communications, iXblue, ifiber, Evonik, Heracle, OFS, Nanjing Shenglue Technology and FiberLogix, 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 Polyimide Optical Fibre market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Km) and average price (US\$/m) by manufacturer, by Type, and by Application. Data is given for the years 2019-2030 by year with 2023 as the base year, 2024 as the estimate year, and 2025-2030 as the forecast year.

Global Polyimide Optical Fibre Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Polyimide Optical Fibre Market, Segmentation by Type

Multimode Fibre

Single Mode Fibre

Global Polyimide Optical Fibre Market, Segmentation by Application

High Temperature Sensing

Oil and Gas

Nuclear Environment

Others

Companies Profiled:

Fibercore

Corning Optical Communications

iXblue

ifiber

Evonik

Heracle

OFS

Nanjing Shenglue Technology

FiberLogix

Mitsubishi Rayon

Umoptics

FIBEROCK

Key Questions Answered

1. How big is the global Polyimide Optical Fibre market?
2. What is the demand of the global Polyimide Optical Fibre market?
3. What is the year over year growth of the global Polyimide Optical Fibre market?
4. What is the production and production value of the global Polyimide Optical Fibre market?
5. Who are the key producers in the global Polyimide Optical Fibre market?

Contents

1 SUPPLY SUMMARY

- 1.1 Polyimide Optical Fibre Introduction
- 1.2 World Polyimide Optical Fibre Supply & Forecast
 - 1.2.1 World Polyimide Optical Fibre Production Value (2019 & 2023 & 2030)
 - 1.2.2 World Polyimide Optical Fibre Production (2019-2030)
 - 1.2.3 World Polyimide Optical Fibre Pricing Trends (2019-2030)
- 1.3 World Polyimide Optical Fibre Production by Region (Based on Production Site)
 - 1.3.1 World Polyimide Optical Fibre Production Value by Region (2019-2030)
 - 1.3.2 World Polyimide Optical Fibre Production by Region (2019-2030)
 - 1.3.3 World Polyimide Optical Fibre Average Price by Region (2019-2030)
 - 1.3.4 North America Polyimide Optical Fibre Production (2019-2030)
 - 1.3.5 Europe Polyimide Optical Fibre Production (2019-2030)
 - 1.3.6 China Polyimide Optical Fibre Production (2019-2030)
 - 1.3.7 Japan Polyimide Optical Fibre Production (2019-2030)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Polyimide Optical Fibre Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Polyimide Optical Fibre Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Polyimide Optical Fibre Demand (2019-2030)
- 2.2 World Polyimide Optical Fibre Consumption by Region
 - 2.2.1 World Polyimide Optical Fibre Consumption by Region (2019-2024)
 - 2.2.2 World Polyimide Optical Fibre Consumption Forecast by Region (2025-2030)
- 2.3 United States Polyimide Optical Fibre Consumption (2019-2030)
- 2.4 China Polyimide Optical Fibre Consumption (2019-2030)
- 2.5 Europe Polyimide Optical Fibre Consumption (2019-2030)
- 2.6 Japan Polyimide Optical Fibre Consumption (2019-2030)
- 2.7 South Korea Polyimide Optical Fibre Consumption (2019-2030)
- 2.8 ASEAN Polyimide Optical Fibre Consumption (2019-2030)
- 2.9 India Polyimide Optical Fibre Consumption (2019-2030)

3 WORLD POLYIMIDE OPTICAL FIBRE MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Polyimide Optical Fibre Production Value by Manufacturer (2019-2024)
- 3.2 World Polyimide Optical Fibre Production by Manufacturer (2019-2024)
- 3.3 World Polyimide Optical Fibre Average Price by Manufacturer (2019-2024)
- 3.4 Polyimide Optical Fibre Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Polyimide Optical Fibre Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Polyimide Optical Fibre in 2023
 - 3.5.3 Global Concentration Ratios (CR8) for Polyimide Optical Fibre in 2023
- 3.6 Polyimide Optical Fibre Market: Overall Company Footprint Analysis
 - 3.6.1 Polyimide Optical Fibre Market: Region Footprint
 - 3.6.2 Polyimide Optical Fibre Market: Company Product Type Footprint
 - 3.6.3 Polyimide Optical Fibre 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: Polyimide Optical Fibre Production Value Comparison
 - 4.1.1 United States VS China: Polyimide Optical Fibre Production Value Comparison (2019 & 2023 & 2030)
 - 4.1.2 United States VS China: Polyimide Optical Fibre Production Value Market Share Comparison (2019 & 2023 & 2030)
- 4.2 United States VS China: Polyimide Optical Fibre Production Comparison
 - 4.2.1 United States VS China: Polyimide Optical Fibre Production Comparison (2019 & 2023 & 2030)
 - 4.2.2 United States VS China: Polyimide Optical Fibre Production Market Share Comparison (2019 & 2023 & 2030)
- 4.3 United States VS China: Polyimide Optical Fibre Consumption Comparison
 - 4.3.1 United States VS China: Polyimide Optical Fibre Consumption Comparison (2019 & 2023 & 2030)
 - 4.3.2 United States VS China: Polyimide Optical Fibre Consumption Market Share Comparison (2019 & 2023 & 2030)
- 4.4 United States Based Polyimide Optical Fibre Manufacturers and Market Share, 2019-2024
 - 4.4.1 United States Based Polyimide Optical Fibre Manufacturers, Headquarters and

Production Site (States, Country)

4.4.2 United States Based Manufacturers Polyimide Optical Fibre Production Value (2019-2024)

4.4.3 United States Based Manufacturers Polyimide Optical Fibre Production (2019-2024)

4.5 China Based Polyimide Optical Fibre Manufacturers and Market Share

4.5.1 China Based Polyimide Optical Fibre Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Polyimide Optical Fibre Production Value (2019-2024)

4.5.3 China Based Manufacturers Polyimide Optical Fibre Production (2019-2024)

4.6 Rest of World Based Polyimide Optical Fibre Manufacturers and Market Share, 2019-2024

4.6.1 Rest of World Based Polyimide Optical Fibre Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Polyimide Optical Fibre Production Value (2019-2024)

4.6.3 Rest of World Based Manufacturers Polyimide Optical Fibre Production (2019-2024)

5 MARKET ANALYSIS BY TYPE

5.1 World Polyimide Optical Fibre Market Size Overview by Type: 2019 VS 2023 VS 2030

5.2 Segment Introduction by Type

5.2.1 Multimode Fibre

5.2.2 Single Mode Fibre

5.3 Market Segment by Type

5.3.1 World Polyimide Optical Fibre Production by Type (2019-2030)

5.3.2 World Polyimide Optical Fibre Production Value by Type (2019-2030)

5.3.3 World Polyimide Optical Fibre Average Price by Type (2019-2030)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Polyimide Optical Fibre Market Size Overview by Application: 2019 VS 2023 VS 2030

6.2 Segment Introduction by Application

6.2.1 High Temperature Sensing

6.2.2 Oil and Gas

6.2.3 Nuclear Environment

6.2.4 Others

6.3 Market Segment by Application

6.3.1 World Polyimide Optical Fibre Production by Application (2019-2030)

6.3.2 World Polyimide Optical Fibre Production Value by Application (2019-2030)

6.3.3 World Polyimide Optical Fibre Average Price by Application (2019-2030)

7 COMPANY PROFILES

7.1 Fibercore

7.1.1 Fibercore Details

7.1.2 Fibercore Major Business

7.1.3 Fibercore Polyimide Optical Fibre Product and Services

7.1.4 Fibercore Polyimide Optical Fibre Production, Price, Value, Gross Margin and Market Share (2019-2024)

7.1.5 Fibercore Recent Developments/Updates

7.1.6 Fibercore Competitive Strengths & Weaknesses

7.2 Corning Optical Communications

7.2.1 Corning Optical Communications Details

7.2.2 Corning Optical Communications Major Business

7.2.3 Corning Optical Communications Polyimide Optical Fibre Product and Services

7.2.4 Corning Optical Communications Polyimide Optical Fibre Production, Price, Value, Gross Margin and Market Share (2019-2024)

7.2.5 Corning Optical Communications Recent Developments/Updates

7.2.6 Corning Optical Communications Competitive Strengths & Weaknesses

7.3 iXblue

7.3.1 iXblue Details

7.3.2 iXblue Major Business

7.3.3 iXblue Polyimide Optical Fibre Product and Services

7.3.4 iXblue Polyimide Optical Fibre Production, Price, Value, Gross Margin and Market Share (2019-2024)

7.3.5 iXblue Recent Developments/Updates

7.3.6 iXblue Competitive Strengths & Weaknesses

7.4 ifiber

7.4.1 ifiber Details

7.4.2 ifiber Major Business

7.4.3 ifiber Polyimide Optical Fibre Product and Services

7.4.4 ifiber Polyimide Optical Fibre Production, Price, Value, Gross Margin and Market Share (2019-2024)

- 7.4.5 ifiber Recent Developments/Updates
- 7.4.6 ifiber Competitive Strengths & Weaknesses
- 7.5 Evonik
 - 7.5.1 Evonik Details
 - 7.5.2 Evonik Major Business
 - 7.5.3 Evonik Polyimide Optical Fibre Product and Services
 - 7.5.4 Evonik Polyimide Optical Fibre Production, Price, Value, Gross Margin and Market Share (2019-2024)
 - 7.5.5 Evonik Recent Developments/Updates
 - 7.5.6 Evonik Competitive Strengths & Weaknesses
- 7.6 Heracle
 - 7.6.1 Heracle Details
 - 7.6.2 Heracle Major Business
 - 7.6.3 Heracle Polyimide Optical Fibre Product and Services
 - 7.6.4 Heracle Polyimide Optical Fibre Production, Price, Value, Gross Margin and Market Share (2019-2024)
 - 7.6.5 Heracle Recent Developments/Updates
 - 7.6.6 Heracle Competitive Strengths & Weaknesses
- 7.7 OFS
 - 7.7.1 OFS Details
 - 7.7.2 OFS Major Business
 - 7.7.3 OFS Polyimide Optical Fibre Product and Services
 - 7.7.4 OFS Polyimide Optical Fibre Production, Price, Value, Gross Margin and Market Share (2019-2024)
 - 7.7.5 OFS Recent Developments/Updates
 - 7.7.6 OFS Competitive Strengths & Weaknesses
- 7.8 Nanjing Shenglue Technology
 - 7.8.1 Nanjing Shenglue Technology Details
 - 7.8.2 Nanjing Shenglue Technology Major Business
 - 7.8.3 Nanjing Shenglue Technology Polyimide Optical Fibre Product and Services
 - 7.8.4 Nanjing Shenglue Technology Polyimide Optical Fibre Production, Price, Value, Gross Margin and Market Share (2019-2024)
 - 7.8.5 Nanjing Shenglue Technology Recent Developments/Updates
 - 7.8.6 Nanjing Shenglue Technology Competitive Strengths & Weaknesses
- 7.9 FiberLogix
 - 7.9.1 FiberLogix Details
 - 7.9.2 FiberLogix Major Business
 - 7.9.3 FiberLogix Polyimide Optical Fibre Product and Services
 - 7.9.4 FiberLogix Polyimide Optical Fibre Production, Price, Value, Gross Margin and

Market Share (2019-2024)

7.9.5 FiberLogix Recent Developments/Updates

7.9.6 FiberLogix Competitive Strengths & Weaknesses

7.10 Mitsubishi Rayon

7.10.1 Mitsubishi Rayon Details

7.10.2 Mitsubishi Rayon Major Business

7.10.3 Mitsubishi Rayon Polyimide Optical Fibre Product and Services

7.10.4 Mitsubishi Rayon Polyimide Optical Fibre Production, Price, Value, Gross

Margin and Market Share (2019-2024)

7.10.5 Mitsubishi Rayon Recent Developments/Updates

7.10.6 Mitsubishi Rayon Competitive Strengths & Weaknesses

7.11 Umoptics

7.11.1 Umoptics Details

7.11.2 Umoptics Major Business

7.11.3 Umoptics Polyimide Optical Fibre Product and Services

7.11.4 Umoptics Polyimide Optical Fibre Production, Price, Value, Gross Margin and

Market Share (2019-2024)

7.11.5 Umoptics Recent Developments/Updates

7.11.6 Umoptics Competitive Strengths & Weaknesses

7.12 FIBEROCK

7.12.1 FIBEROCK Details

7.12.2 FIBEROCK Major Business

7.12.3 FIBEROCK Polyimide Optical Fibre Product and Services

7.12.4 FIBEROCK Polyimide Optical Fibre Production, Price, Value, Gross Margin and

Market Share (2019-2024)

7.12.5 FIBEROCK Recent Developments/Updates

7.12.6 FIBEROCK Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

8.1 Polyimide Optical Fibre Industry Chain

8.2 Polyimide Optical Fibre Upstream Analysis

8.2.1 Polyimide Optical Fibre Core Raw Materials

8.2.2 Main Manufacturers of Polyimide Optical Fibre Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 Polyimide Optical Fibre Production Mode

8.6 Polyimide Optical Fibre Procurement Model

8.7 Polyimide Optical Fibre Industry Sales Model and Sales Channels

- 8.7.1 Polyimide Optical Fibre Sales Model
- 8.7.2 Polyimide Optical Fibre 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 Polyimide Optical Fibre Production Value by Region (2019, 2023 and 2030) & (USD Million)

Table 2. World Polyimide Optical Fibre Production Value by Region (2019-2024) & (USD Million)

Table 3. World Polyimide Optical Fibre Production Value by Region (2025-2030) & (USD Million)

Table 4. World Polyimide Optical Fibre Production Value Market Share by Region (2019-2024)

Table 5. World Polyimide Optical Fibre Production Value Market Share by Region (2025-2030)

Table 6. World Polyimide Optical Fibre Production by Region (2019-2024) & (Km)

Table 7. World Polyimide Optical Fibre Production by Region (2025-2030) & (Km)

Table 8. World Polyimide Optical Fibre Production Market Share by Region (2019-2024)

Table 9. World Polyimide Optical Fibre Production Market Share by Region (2025-2030)

Table 10. World Polyimide Optical Fibre Average Price by Region (2019-2024) & (US\$/m)

Table 11. World Polyimide Optical Fibre Average Price by Region (2025-2030) & (US\$/m)

Table 12. Polyimide Optical Fibre Major Market Trends

Table 13. World Polyimide Optical Fibre Consumption Growth Rate Forecast by Region (2019 & 2023 & 2030) & (Km)

Table 14. World Polyimide Optical Fibre Consumption by Region (2019-2024) & (Km)

Table 15. World Polyimide Optical Fibre Consumption Forecast by Region (2025-2030) & (Km)

Table 16. World Polyimide Optical Fibre Production Value by Manufacturer (2019-2024) & (USD Million)

Table 17. Production Value Market Share of Key Polyimide Optical Fibre Producers in 2023

Table 18. World Polyimide Optical Fibre Production by Manufacturer (2019-2024) & (Km)

Table 19. Production Market Share of Key Polyimide Optical Fibre Producers in 2023

Table 20. World Polyimide Optical Fibre Average Price by Manufacturer (2019-2024) & (US\$/m)

Table 21. Global Polyimide Optical Fibre Company Evaluation Quadrant

Table 22. World Polyimide Optical Fibre Industry Rank of Major Manufacturers, Based

on Production Value in 2023

Table 23. Head Office and Polyimide Optical Fibre Production Site of Key Manufacturer

Table 24. Polyimide Optical Fibre Market: Company Product Type Footprint

Table 25. Polyimide Optical Fibre Market: Company Product Application Footprint

Table 26. Polyimide Optical Fibre Competitive Factors

Table 27. Polyimide Optical Fibre New Entrant and Capacity Expansion Plans

Table 28. Polyimide Optical Fibre Mergers & Acquisitions Activity

Table 29. United States VS China Polyimide Optical Fibre Production Value

Comparison, (2019 & 2023 & 2030) & (USD Million)

Table 30. United States VS China Polyimide Optical Fibre Production Comparison,
(2019 & 2023 & 2030) & (Km)

Table 31. United States VS China Polyimide Optical Fibre Consumption Comparison,
(2019 & 2023 & 2030) & (Km)

Table 32. United States Based Polyimide Optical Fibre Manufacturers, Headquarters
and Production Site (States, Country)

Table 33. United States Based Manufacturers Polyimide Optical Fibre Production Value,
(2019-2024) & (USD Million)

Table 34. United States Based Manufacturers Polyimide Optical Fibre Production Value
Market Share (2019-2024)

Table 35. United States Based Manufacturers Polyimide Optical Fibre Production
(2019-2024) & (Km)

Table 36. United States Based Manufacturers Polyimide Optical Fibre Production
Market Share (2019-2024)

Table 37. China Based Polyimide Optical Fibre Manufacturers, Headquarters and
Production Site (Province, Country)

Table 38. China Based Manufacturers Polyimide Optical Fibre Production Value,
(2019-2024) & (USD Million)

Table 39. China Based Manufacturers Polyimide Optical Fibre Production Value Market
Share (2019-2024)

Table 40. China Based Manufacturers Polyimide Optical Fibre Production (2019-2024)
& (Km)

Table 41. China Based Manufacturers Polyimide Optical Fibre Production Market Share
(2019-2024)

Table 42. Rest of World Based Polyimide Optical Fibre Manufacturers, Headquarters
and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Polyimide Optical Fibre Production
Value, (2019-2024) & (USD Million)

Table 44. Rest of World Based Manufacturers Polyimide Optical Fibre Production Value
Market Share (2019-2024)

Table 45. Rest of World Based Manufacturers Polyimide Optical Fibre Production (2019-2024) & (Km)

Table 46. Rest of World Based Manufacturers Polyimide Optical Fibre Production Market Share (2019-2024)

Table 47. World Polyimide Optical Fibre Production Value by Type, (USD Million), 2019 & 2023 & 2030

Table 48. World Polyimide Optical Fibre Production by Type (2019-2024) & (Km)

Table 49. World Polyimide Optical Fibre Production by Type (2025-2030) & (Km)

Table 50. World Polyimide Optical Fibre Production Value by Type (2019-2024) & (USD Million)

Table 51. World Polyimide Optical Fibre Production Value by Type (2025-2030) & (USD Million)

Table 52. World Polyimide Optical Fibre Average Price by Type (2019-2024) & (US\$/m)

Table 53. World Polyimide Optical Fibre Average Price by Type (2025-2030) & (US\$/m)

Table 54. World Polyimide Optical Fibre Production Value by Application, (USD Million), 2019 & 2023 & 2030

Table 55. World Polyimide Optical Fibre Production by Application (2019-2024) & (Km)

Table 56. World Polyimide Optical Fibre Production by Application (2025-2030) & (Km)

Table 57. World Polyimide Optical Fibre Production Value by Application (2019-2024) & (USD Million)

Table 58. World Polyimide Optical Fibre Production Value by Application (2025-2030) & (USD Million)

Table 59. World Polyimide Optical Fibre Average Price by Application (2019-2024) & (US\$/m)

Table 60. World Polyimide Optical Fibre Average Price by Application (2025-2030) & (US\$/m)

Table 61. Fibercore Basic Information, Manufacturing Base and Competitors

Table 62. Fibercore Major Business

Table 63. Fibercore Polyimide Optical Fibre Product and Services

Table 64. Fibercore Polyimide Optical Fibre Production (Km), Price (US\$/m), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 65. Fibercore Recent Developments/Updates

Table 66. Fibercore Competitive Strengths & Weaknesses

Table 67. Corning Optical Communications Basic Information, Manufacturing Base and Competitors

Table 68. Corning Optical Communications Major Business

Table 69. Corning Optical Communications Polyimide Optical Fibre Product and Services

Table 70. Corning Optical Communications Polyimide Optical Fibre Production (Km),

Price (US\$/m), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 71. Corning Optical Communications Recent Developments/Updates

Table 72. Corning Optical Communications Competitive Strengths & Weaknesses

Table 73. iXblue Basic Information, Manufacturing Base and Competitors

Table 74. iXblue Major Business

Table 75. iXblue Polyimide Optical Fibre Product and Services

Table 76. iXblue Polyimide Optical Fibre Production (Km), Price (US\$/m), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 77. iXblue Recent Developments/Updates

Table 78. iXblue Competitive Strengths & Weaknesses

Table 79. ifiber Basic Information, Manufacturing Base and Competitors

Table 80. ifiber Major Business

Table 81. ifiber Polyimide Optical Fibre Product and Services

Table 82. ifiber Polyimide Optical Fibre Production (Km), Price (US\$/m), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 83. ifiber Recent Developments/Updates

Table 84. ifiber Competitive Strengths & Weaknesses

Table 85. Evonik Basic Information, Manufacturing Base and Competitors

Table 86. Evonik Major Business

Table 87. Evonik Polyimide Optical Fibre Product and Services

Table 88. Evonik Polyimide Optical Fibre Production (Km), Price (US\$/m), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 89. Evonik Recent Developments/Updates

Table 90. Evonik Competitive Strengths & Weaknesses

Table 91. Heracle Basic Information, Manufacturing Base and Competitors

Table 92. Heracle Major Business

Table 93. Heracle Polyimide Optical Fibre Product and Services

Table 94. Heracle Polyimide Optical Fibre Production (Km), Price (US\$/m), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 95. Heracle Recent Developments/Updates

Table 96. Heracle Competitive Strengths & Weaknesses

Table 97. OFS Basic Information, Manufacturing Base and Competitors

Table 98. OFS Major Business

Table 99. OFS Polyimide Optical Fibre Product and Services

Table 100. OFS Polyimide Optical Fibre Production (Km), Price (US\$/m), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 101. OFS Recent Developments/Updates

Table 102. OFS Competitive Strengths & Weaknesses

Table 103. Nanjing Shenglue Technology Basic Information, Manufacturing Base and Competitors

Table 104. Nanjing Shenglue Technology Major Business

Table 105. Nanjing Shenglue Technology Polyimide Optical Fibre Product and Services

Table 106. Nanjing Shenglue Technology Polyimide Optical Fibre Production (Km), Price (US\$/m), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 107. Nanjing Shenglue Technology Recent Developments/Updates

Table 108. Nanjing Shenglue Technology Competitive Strengths & Weaknesses

Table 109. FiberLogix Basic Information, Manufacturing Base and Competitors

Table 110. FiberLogix Major Business

Table 111. FiberLogix Polyimide Optical Fibre Product and Services

Table 112. FiberLogix Polyimide Optical Fibre Production (Km), Price (US\$/m), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 113. FiberLogix Recent Developments/Updates

Table 114. FiberLogix Competitive Strengths & Weaknesses

Table 115. Mitsubishi Rayon Basic Information, Manufacturing Base and Competitors

Table 116. Mitsubishi Rayon Major Business

Table 117. Mitsubishi Rayon Polyimide Optical Fibre Product and Services

Table 118. Mitsubishi Rayon Polyimide Optical Fibre Production (Km), Price (US\$/m), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 119. Mitsubishi Rayon Recent Developments/Updates

Table 120. Mitsubishi Rayon Competitive Strengths & Weaknesses

Table 121. Umoptics Basic Information, Manufacturing Base and Competitors

Table 122. Umoptics Major Business

Table 123. Umoptics Polyimide Optical Fibre Product and Services

Table 124. Umoptics Polyimide Optical Fibre Production (Km), Price (US\$/m), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 125. Umoptics Recent Developments/Updates

Table 126. FIBEROCK Basic Information, Manufacturing Base and Competitors

Table 127. FIBEROCK Major Business

Table 128. FIBEROCK Polyimide Optical Fibre Product and Services

Table 129. FIBEROCK Polyimide Optical Fibre Production (Km), Price (US\$/m), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 130. Global Key Players of Polyimide Optical Fibre Upstream (Raw Materials)

Table 131. Polyimide Optical Fibre Typical Customers

Table 132. Polyimide Optical Fibre Typical Distributors

LIST OF FIGURE

Figure 1. Polyimide Optical Fibre Picture

Figure 2. World Polyimide Optical Fibre Production Value: 2019 & 2023 & 2030, (USD Million)

Figure 3. World Polyimide Optical Fibre Production Value and Forecast (2019-2030) & (USD Million)

Figure 4. World Polyimide Optical Fibre Production (2019-2030) & (Km)

Figure 5. World Polyimide Optical Fibre Average Price (2019-2030) & (US\$/m)

Figure 6. World Polyimide Optical Fibre Production Value Market Share by Region (2019-2030)

Figure 7. World Polyimide Optical Fibre Production Market Share by Region (2019-2030)

Figure 8. North America Polyimide Optical Fibre Production (2019-2030) & (Km)

Figure 9. Europe Polyimide Optical Fibre Production (2019-2030) & (Km)

Figure 10. China Polyimide Optical Fibre Production (2019-2030) & (Km)

Figure 11. Japan Polyimide Optical Fibre Production (2019-2030) & (Km)

Figure 12. Polyimide Optical Fibre Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Polyimide Optical Fibre Consumption (2019-2030) & (Km)

Figure 15. World Polyimide Optical Fibre Consumption Market Share by Region (2019-2030)

Figure 16. United States Polyimide Optical Fibre Consumption (2019-2030) & (Km)

Figure 17. China Polyimide Optical Fibre Consumption (2019-2030) & (Km)

Figure 18. Europe Polyimide Optical Fibre Consumption (2019-2030) & (Km)

Figure 19. Japan Polyimide Optical Fibre Consumption (2019-2030) & (Km)

Figure 20. South Korea Polyimide Optical Fibre Consumption (2019-2030) & (Km)

Figure 21. ASEAN Polyimide Optical Fibre Consumption (2019-2030) & (Km)

Figure 22. India Polyimide Optical Fibre Consumption (2019-2030) & (Km)

Figure 23. Producer Shipments of Polyimide Optical Fibre by Manufacturer Revenue (\$MM) and Market Share (%): 2023

Figure 24. Global Four-firm Concentration Ratios (CR4) for Polyimide Optical Fibre Markets in 2023

Figure 25. Global Four-firm Concentration Ratios (CR8) for Polyimide Optical Fibre Markets in 2023

Figure 26. United States VS China: Polyimide Optical Fibre Production Value Market Share Comparison (2019 & 2023 & 2030)

Figure 27. United States VS China: Polyimide Optical Fibre Production Market Share Comparison (2019 & 2023 & 2030)

Figure 28. United States VS China: Polyimide Optical Fibre Consumption Market Share

Comparison (2019 & 2023 & 2030)

Figure 29. United States Based Manufacturers Polyimide Optical Fibre Production Market Share 2023

Figure 30. China Based Manufacturers Polyimide Optical Fibre Production Market Share 2023

Figure 31. Rest of World Based Manufacturers Polyimide Optical Fibre Production Market Share 2023

Figure 32. World Polyimide Optical Fibre Production Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 33. World Polyimide Optical Fibre Production Value Market Share by Type in 2023

Figure 34. Multimode Fibre

Figure 35. Single Mode Fibre

Figure 36. World Polyimide Optical Fibre Production Market Share by Type (2019-2030)

Figure 37. World Polyimide Optical Fibre Production Value Market Share by Type (2019-2030)

Figure 38. World Polyimide Optical Fibre Average Price by Type (2019-2030) & (US\$/m)

Figure 39. World Polyimide Optical Fibre Production Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 40. World Polyimide Optical Fibre Production Value Market Share by Application in 2023

Figure 41. High Temperature Sensing

Figure 42. Oil and Gas

Figure 43. Nuclear Environment

Figure 44. Others

Figure 45. World Polyimide Optical Fibre Production Market Share by Application (2019-2030)

Figure 46. World Polyimide Optical Fibre Production Value Market Share by Application (2019-2030)

Figure 47. World Polyimide Optical Fibre Average Price by Application (2019-2030) & (US\$/m)

Figure 48. Polyimide Optical Fibre Industry Chain

Figure 49. Polyimide Optical Fibre Procurement Model

Figure 50. Polyimide Optical Fibre Sales Model

Figure 51. Polyimide Optical Fibre Sales Channels, Direct Sales, and Distribution

Figure 52. Methodology

Figure 53. Research Process and Data Source

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