

# Global Medical PEEK Rod Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GC37E074E11AEN.html>

Date: February 2026

Pages: 130

Price: US\$ 4,480.00 (Single User License)

ID: GC37E074E11AEN

## Abstracts

The global Medical PEEK Rod market size is expected to reach \$ 260 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Medical PEEK rod refers to special engineering plastic semi-finished products made from pure PEEK resin that has passed strict biocompatibility certification, produced in a controlled clean environment through extrusion or molding processes. They are specifically designed for manufacturing medical device components that are implanted into the human body for long or short periods, or that come into contact with human tissue/blood. The demand for medical-grade PEEK rods stems from the urgent need for high-performance, biocompatible, and precision-machinable implantable materials in global high-end medical device innovation and in fields such as orthopedics and dentistry. The core driver is the need to replace traditional metals to solve problems such as stress shielding, image artifacts, and metal allergies. Its upstream supply chain is highly concentrated, relying on a few PEEK resin suppliers that have passed strict biocompatibility certification, as well as high-cleanliness specialized production and packaging materials. Downstream, it directly serves medical device manufacturers, who perform precision machining, surface treatment, and sterilization to produce end products such as spinal fusion device molds, bone plates, and surgical instruments. These products ultimately pass strict registration approvals (such as FDA and CE) before entering clinical use in hospitals. In 2025, the production of medical-grade PEEK rods will be approximately 500 tons, with an average price of approximately US\$340,000 per ton, a gross profit margin of approximately 55%, and a single production line capacity of 20 tons per year.

This report studies the global Medical PEEK Rod production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Medical PEEK Rod 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 Medical PEEK Rod that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Medical PEEK Rod total production and demand, 2021-2032, (Tons)

Global Medical PEEK Rod total production value, 2021-2032, (USD Million)

Global Medical PEEK Rod production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Medical PEEK Rod consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Medical PEEK Rod domestic production, consumption, key domestic manufacturers and share

Global Medical PEEK Rod production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Medical PEEK Rod production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Medical PEEK Rod production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Medical PEEK Rod 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 Ensinger GmbH (Unlisted, Nufringen Germany), Mitsubishi Chemical Advanced Materials AG (Unlisted, Zurich Switzerland), Evonik Industries AG (Listed, Essen Germany), Westlake Plastics Co. (Unlisted, Pennsylvania USA), Boedeker Plastics, Inc. (Unlisted, Texas USA), Professional Plastics, Inc. (Unlisted, California USA), Emco Industrial Plastics, Inc. (Unlisted, Illinois USA), Freudenberg Medical (Unlisted, Weinheim Germany), MyTech Ltd. (Unlisted, Sofia Bulgaria), Petron Thermoplast (Unlisted, Uttar Pradesh India), 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 Medical PEEK Rod market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (KUS\$/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 Medical PEEK Rod Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

**Global Medical PEEK Rod Market, Segmentation by Type:**

Extruded Medical PEEK Rod

Compression Molded Medical PEEK Rod

**Global Medical PEEK Rod Market, Segmentation by Clinical Function:**

Anatomically Matched Type

Porous Structure

Pre-assembled Type

#### Global Medical PEEK Rod Market, Segmentation by Application:

Orthopedic

Dental and Maxillofacial Surgery

Cardiovascular Surgery

Surgical Instrument

Other

#### Companies Profiled:

Ensinger GmbH (Unlisted, Nufringen Germany)

Mitsubishi Chemical Advanced Materials AG (Unlisted, Zurich Switzerland)

Evonik Industries AG (Listed, Essen Germany)

Westlake Plastics Co. (Unlisted, Pennsylvania USA)

Boedeker Plastics, Inc. (Unlisted, Texas USA)

Professional Plastics, Inc. (Unlisted, California USA)

Emco Industrial Plastics, Inc. (Unlisted, Illinois USA)

Freudenberg Medical (Unlisted, Weinheim Germany)

MyTech Ltd. (Unlisted, Sofia Bulgaria)

Petron Thermoplast (Unlisted, Uttar Pradesh India)

Jiangsu Junhua Special Engineering Plastics Products Co., Ltd. (Unlisted, Jiangsu China)

Shanghai Metal Corporation (Unlisted, Shanghai China)

Nanjing Shousu Special Engineering Plastics Products Co., Ltd. (Unlisted, Nanjing China)

Guangzhou Junsun Medical (Unlisted, Guangzhou China)

**Key Questions Answered:**

1. How big is the global Medical PEEK Rod market?
2. What is the demand of the global Medical PEEK Rod market?
3. What is the year over year growth of the global Medical PEEK Rod market?
4. What is the production and production value of the global Medical PEEK Rod market?
5. Who are the key producers in the global Medical PEEK Rod market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

1.1 Freeze-Dried Donor Breast Milk Introduction

1.2 World Freeze-Dried Donor Breast Milk Market Size & Forecast (2021 & 2025 & 2032)

1.3 World Freeze-Dried Donor Breast Milk Total Market by Region (by Headquarter Location)

1.3.1 World Freeze-Dried Donor Breast Milk Market Size by Region (2021-2032), (by Headquarter Location)

1.3.2 United States Based Company Freeze-Dried Donor Breast Milk Revenue (2021-2032)

1.3.3 China Based Company Freeze-Dried Donor Breast Milk Revenue (2021-2032)

1.3.4 Europe Based Company Freeze-Dried Donor Breast Milk Revenue (2021-2032)

1.3.5 Japan Based Company Freeze-Dried Donor Breast Milk Revenue (2021-2032)

1.3.6 South Korea Based Company Freeze-Dried Donor Breast Milk Revenue (2021-2032)

1.3.7 ASEAN Based Company Freeze-Dried Donor Breast Milk Revenue (2021-2032)

1.3.8 India Based Company Freeze-Dried Donor Breast Milk Revenue (2021-2032)

1.4 Market Drivers, Restraints and Trends

1.4.1 Freeze-Dried Donor Breast Milk Market Drivers

1.4.2 Factors Affecting Demand

1.4.3 Major Market Trends

### 2 DEMAND SUMMARY

2.1 World Freeze-Dried Donor Breast Milk Consumption Value (2021-2032)

2.2 World Freeze-Dried Donor Breast Milk Consumption Value by Region

2.2.1 World Freeze-Dried Donor Breast Milk Consumption Value by Region (2021-2026)

2.2.2 World Freeze-Dried Donor Breast Milk Consumption Value Forecast by Region (2027-2032)

2.3 United States Freeze-Dried Donor Breast Milk Consumption Value (2021-2032)

2.4 China Freeze-Dried Donor Breast Milk Consumption Value (2021-2032)

2.5 Europe Freeze-Dried Donor Breast Milk Consumption Value (2021-2032)

2.6 Japan Freeze-Dried Donor Breast Milk Consumption Value (2021-2032)

2.7 South Korea Freeze-Dried Donor Breast Milk Consumption Value (2021-2032)

2.8 ASEAN Freeze-Dried Donor Breast Milk Consumption Value (2021-2032)

## 2.9 India Freeze-Dried Donor Breast Milk Consumption Value (2021-2032)

### **3 WORLD FREEZE-DRIED DONOR BREAST MILK COMPANIES COMPETITIVE ANALYSIS**

#### 3.1 World Freeze-Dried Donor Breast Milk Revenue by Player (2021-2026)

#### 3.2 Industry Rank and Concentration Rate (CR)

##### 3.2.1 Global Freeze-Dried Donor Breast Milk Industry Rank of Major Players

##### 3.2.2 Global Concentration Ratios (CR4) for Freeze-Dried Donor Breast Milk in 2025

##### 3.2.3 Global Concentration Ratios (CR8) for Freeze-Dried Donor Breast Milk in 2025

#### 3.3 Freeze-Dried Donor Breast Milk Company Evaluation Quadrant

#### 3.4 Freeze-Dried Donor Breast Milk Market: Overall Company Footprint Analysis

##### 3.4.1 Freeze-Dried Donor Breast Milk Market: Region Footprint

##### 3.4.2 Freeze-Dried Donor Breast Milk Market: Company Product Type Footprint

##### 3.4.3 Freeze-Dried Donor Breast Milk Market: Company Product Application Footprint

#### 3.5 Competitive Environment

##### 3.5.1 Historical Structure of the Industry

##### 3.5.2 Barriers of Market Entry

##### 3.5.3 Factors of Competition

#### 3.6 Mergers & Acquisitions Activity

### **4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)**

#### 4.1 United States VS China: Freeze-Dried Donor Breast Milk Revenue Comparison (by Headquarter Location)

##### 4.1.1 United States VS China: Freeze-Dried Donor Breast Milk Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)

##### 4.1.2 United States VS China: Freeze-Dried Donor Breast Milk Revenue Market Share Comparison (2021 & 2025 & 2032)

#### 4.2 United States Based Companies VS China Based Companies: Freeze-Dried Donor Breast Milk Consumption Value Comparison

##### 4.2.1 United States VS China: Freeze-Dried Donor Breast Milk Consumption Value Comparison (2021 & 2025 & 2032)

##### 4.2.2 United States VS China: Freeze-Dried Donor Breast Milk Consumption Value Market Share Comparison (2021 & 2025 & 2032)

#### 4.3 United States Based Freeze-Dried Donor Breast Milk Companies and Market Share, 2021-2026

##### 4.3.1 United States Based Freeze-Dried Donor Breast Milk Companies, Headquarters

(States, Country)

4.3.2 United States Based Companies Freeze-Dried Donor Breast Milk Revenue, (2021-2026)

4.4 China Based Companies Freeze-Dried Donor Breast Milk Revenue and Market Share, 2021-2026

4.4.1 China Based Freeze-Dried Donor Breast Milk Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Freeze-Dried Donor Breast Milk Revenue, (2021-2026)

4.5 Rest of World Based Freeze-Dried Donor Breast Milk Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Freeze-Dried Donor Breast Milk Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Freeze-Dried Donor Breast Milk Revenue (2021-2026)

## **5 MARKET ANALYSIS BY DONOR MILK SOURCE**

5.1 World Freeze-Dried Donor Breast Milk Market Size Overview by Donor Milk Source: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Donor Milk Source

5.2.1 Term Infant Donor Breast Milk

5.2.2 Premature Infant Donor Breast Milk

5.2.3 Special Nutritional Donor Breast Milk

5.3 Market Segment by Donor Milk Source

5.3.1 World Freeze-Dried Donor Breast Milk Market Size by Donor Milk Source (2021-2026)

5.3.2 World Freeze-Dried Donor Breast Milk Market Size by Donor Milk Source (2027-2032)

5.3.3 World Freeze-Dried Donor Breast Milk Market Size Market Share by Donor Milk Source (2027-2032)

## **6 MARKET ANALYSIS BY PROCESSING STANDARD**

6.1 World Freeze-Dried Donor Breast Milk Market Size Overview by Processing Standard: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Processing Standard

6.2.1 Medical-Grade

6.2.2 Household-Grade

6.3 Market Segment by Processing Standard

6.3.1 World Freeze-Dried Donor Breast Milk Market Size by Processing Standard (2021-2026)

6.3.2 World Freeze-Dried Donor Breast Milk Market Size by Processing Standard (2027-2032)

6.3.3 World Freeze-Dried Donor Breast Milk Market Size Market Share by Processing Standard (2027-2032)

## **7 MARKET ANALYSIS BY NUTRITIONAL FORTIFICATION**

7.1 World Freeze-Dried Donor Breast Milk Market Size Overview by Nutritional Fortification: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Nutritional Fortification

7.2.1 Unfortified Breast Milk

7.2.2 Protein-Fortified Breast Milk

7.2.3 Fat-Fortified Breast Milk

7.3 Market Segment by Nutritional Fortification

7.3.1 World Freeze-Dried Donor Breast Milk Market Size by Nutritional Fortification (2021-2026)

7.3.2 World Freeze-Dried Donor Breast Milk Market Size by Nutritional Fortification (2027-2032)

7.3.3 World Freeze-Dried Donor Breast Milk Market Size Market Share by Nutritional Fortification (2027-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Freeze-Dried Donor Breast Milk Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Premature Infant

8.2.2 Low-Birth-Weight Infant

8.2.3 Healthy Term Infant

8.3 Market Segment by Application

8.3.1 World Freeze-Dried Donor Breast Milk Market Size by Application (2021-2026)

8.3.2 World Freeze-Dried Donor Breast Milk Market Size by Application (2027-2032)

8.3.3 World Freeze-Dried Donor Breast Milk Market Size Market Share by Application (2021-2032)

## **9 COMPANY PROFILES**

## 9.1 Leche

9.1.1 Leche Details

9.1.2 Leche Major Business

9.1.3 Leche Freeze-Dried Donor Breast Milk Product and Services

9.1.4 Leche Freeze-Dried Donor Breast Milk Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 Leche Recent Developments/Updates

9.1.6 Leche Competitive Strengths & Weaknesses

## 9.2 Vitalis

9.2.1 Vitalis Details

9.2.2 Vitalis Major Business

9.2.3 Vitalis Freeze-Dried Donor Breast Milk Product and Services

9.2.4 Vitalis Freeze-Dried Donor Breast Milk Revenue, Gross Margin and Market Share (2021-2026)

9.2.5 Vitalis Recent Developments/Updates

9.2.6 Vitalis Competitive Strengths & Weaknesses

## 9.3 Milkify

9.3.1 Milkify Details

9.3.2 Milkify Major Business

9.3.3 Milkify Freeze-Dried Donor Breast Milk Product and Services

9.3.4 Milkify Freeze-Dried Donor Breast Milk Revenue, Gross Margin and Market Share (2021-2026)

9.3.5 Milkify Recent Developments/Updates

9.3.6 Milkify Competitive Strengths & Weaknesses

## 9.4 Nourishy

9.4.1 Nourishy Details

9.4.2 Nourishy Major Business

9.4.3 Nourishy Freeze-Dried Donor Breast Milk Product and Services

9.4.4 Nourishy Freeze-Dried Donor Breast Milk Revenue, Gross Margin and Market Share (2021-2026)

9.4.5 Nourishy Recent Developments/Updates

9.4.6 Nourishy Competitive Strengths & Weaknesses

## 9.5 AMMEVA

9.5.1 AMMEVA Details

9.5.2 AMMEVA Major Business

9.5.3 AMMEVA Freeze-Dried Donor Breast Milk Product and Services

9.5.4 AMMEVA Freeze-Dried Donor Breast Milk Revenue, Gross Margin and Market Share (2021-2026)

9.5.5 AMMEVA Recent Developments/Updates

9.5.6 AMMEVA Competitive Strengths & Weaknesses

9.6 NeoLacta

9.6.1 NeoLacta Details

9.6.2 NeoLacta Major Business

9.6.3 NeoLacta Freeze-Dried Donor Breast Milk Product and Services

9.6.4 NeoLacta Freeze-Dried Donor Breast Milk Revenue, Gross Margin and Market Share (2021-2026)

9.6.5 NeoLacta Recent Developments/Updates

9.6.6 NeoLacta Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

10.1 Freeze-Dried Donor Breast Milk Industry Chain

10.2 Freeze-Dried Donor Breast Milk Upstream Analysis

10.3 Freeze-Dried Donor Breast Milk Midstream Analysis

10.4 Freeze-Dried Donor Breast Milk Downstream Analysis

## **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 Medical PEEK Rod Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Medical PEEK Rod Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Medical PEEK Rod Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Medical PEEK Rod Production Value Market Share by Region (2021-2026)
- Table 5. World Medical PEEK Rod Production Value Market Share by Region (2027-2032)
- Table 6. World Medical PEEK Rod Production by Region (2021-2026) & (Tons)
- Table 7. World Medical PEEK Rod Production by Region (2027-2032) & (Tons)
- Table 8. World Medical PEEK Rod Production Market Share by Region (2021-2026)
- Table 9. World Medical PEEK Rod Production Market Share by Region (2027-2032)
- Table 10. World Medical PEEK Rod Average Price by Region (2021-2026) & (KUS\$/Ton)
- Table 11. World Medical PEEK Rod Average Price by Region (2027-2032) & (KUS\$/Ton)
- Table 12. Medical PEEK Rod Major Market Trends
- Table 13. World Medical PEEK Rod Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)
- Table 14. World Medical PEEK Rod Consumption by Region (2021-2026) & (Tons)
- Table 15. World Medical PEEK Rod Consumption Forecast by Region (2027-2032) & (Tons)
- Table 16. World Medical PEEK Rod Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Medical PEEK Rod Producers in 2025
- Table 18. World Medical PEEK Rod Production by Manufacturer (2021-2026) & (Tons)
- Table 19. Production Market Share of Key Medical PEEK Rod Producers in 2025
- Table 20. World Medical PEEK Rod Average Price by Manufacturer (2021-2026) & (KUS\$/Ton)
- Table 21. Global Medical PEEK Rod Company Evaluation Quadrant
- Table 22. World Medical PEEK Rod Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Medical PEEK Rod Production Site of Key Manufacturer

- Table 24. Medical PEEK Rod Market: Company Product Type Footprint
- Table 25. Medical PEEK Rod Market: Company Product Application Footprint
- Table 26. Medical PEEK Rod Competitive Factors
- Table 27. Medical PEEK Rod New Entrant and Capacity Expansion Plans
- Table 28. Medical PEEK Rod Mergers & Acquisitions Activity
- Table 29. United States VS China Medical PEEK Rod Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Medical PEEK Rod Production Comparison, (2021 & 2025 & 2032) & (Tons)
- Table 31. United States VS China Medical PEEK Rod Consumption Comparison, (2021 & 2025 & 2032) & (Tons)
- Table 32. United States Based Medical PEEK Rod Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers Medical PEEK Rod Production Value, (2021-2026) & (USD Million)
- Table 34. United States Based Manufacturers Medical PEEK Rod Production Value Market Share (2021-2026)
- Table 35. United States Based Manufacturers Medical PEEK Rod Production (2021-2026) & (Tons)
- Table 36. United States Based Manufacturers Medical PEEK Rod Production Market Share (2021-2026)
- Table 37. China Based Medical PEEK Rod Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers Medical PEEK Rod Production Value, (2021-2026) & (USD Million)
- Table 39. China Based Manufacturers Medical PEEK Rod Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Medical PEEK Rod Production, (2021-2026) & (Tons)
- Table 41. China Based Manufacturers Medical PEEK Rod Production Market Share (2021-2026)
- Table 42. Rest of World Based Medical PEEK Rod Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Medical PEEK Rod Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Medical PEEK Rod Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Medical PEEK Rod Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Medical PEEK Rod Production Market Share (2021-2026)

Table 47. World Medical PEEK Rod Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Medical PEEK Rod Production by Type (2021-2026) & (Tons)

Table 49. World Medical PEEK Rod Production by Type (2027-2032) & (Tons)

Table 50. World Medical PEEK Rod Production Value by Type (2021-2026) & (USD Million)

Table 51. World Medical PEEK Rod Production Value by Type (2027-2032) & (USD Million)

Table 52. World Medical PEEK Rod Average Price by Type (2021-2026) & (KUS\$/Ton)

Table 53. World Medical PEEK Rod Average Price by Type (2027-2032) & (KUS\$/Ton)

Table 54. World Medical PEEK Rod Production Value by Clinical Function, (USD Million), 2021 & 2025 & 2032

Table 55. World Medical PEEK Rod Production by Clinical Function (2021-2026) & (Tons)

Table 56. World Medical PEEK Rod Production by Clinical Function (2027-2032) & (Tons)

Table 57. World Medical PEEK Rod Production Value by Clinical Function (2021-2026) & (USD Million)

Table 58. World Medical PEEK Rod Production Value by Clinical Function (2027-2032) & (USD Million)

Table 59. World Medical PEEK Rod Average Price by Clinical Function (2021-2026) & (KUS\$/Ton)

Table 60. World Medical PEEK Rod Average Price by Clinical Function (2027-2032) & (KUS\$/Ton)

Table 61. World Medical PEEK Rod Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Medical PEEK Rod Production by Application (2021-2026) & (Tons)

Table 63. World Medical PEEK Rod Production by Application (2027-2032) & (Tons)

Table 64. World Medical PEEK Rod Production Value by Application (2021-2026) & (USD Million)

Table 65. World Medical PEEK Rod Production Value by Application (2027-2032) & (USD Million)

Table 66. World Medical PEEK Rod Average Price by Application (2021-2026) & (KUS\$/Ton)

Table 67. World Medical PEEK Rod Average Price by Application (2027-2032) & (KUS\$/Ton)

Table 68. Ensinger GmbH (Unlisted, Nufringen Germany) Basic Information,

## Manufacturing Base and Competitors

Table 69. Ensinger GmbH (Unlisted, Nufringen Germany) Major Business

Table 70. Ensinger GmbH (Unlisted, Nufringen Germany) Medical PEEK Rod Product and Services

Table 71. Ensinger GmbH (Unlisted, Nufringen Germany) Medical PEEK Rod Production (Tons), Price (KUS\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Ensinger GmbH (Unlisted, Nufringen Germany) Recent Developments/Updates

Table 73. Ensinger GmbH (Unlisted, Nufringen Germany) Competitive Strengths & Weaknesses

Table 74. Mitsubishi Chemical Advanced Materials AG (Unlisted, Zurich Switzerland) Basic Information, Manufacturing Base and Competitors

Table 75. Mitsubishi Chemical Advanced Materials AG (Unlisted, Zurich Switzerland) Major Business

Table 76. Mitsubishi Chemical Advanced Materials AG (Unlisted, Zurich Switzerland) Medical PEEK Rod Product and Services

Table 77. Mitsubishi Chemical Advanced Materials AG (Unlisted, Zurich Switzerland) Medical PEEK Rod Production (Tons), Price (KUS\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Mitsubishi Chemical Advanced Materials AG (Unlisted, Zurich Switzerland) Recent Developments/Updates

Table 79. Mitsubishi Chemical Advanced Materials AG (Unlisted, Zurich Switzerland) Competitive Strengths & Weaknesses

Table 80. Evonik Industries AG (Listed, Essen Germany) Basic Information, Manufacturing Base and Competitors

Table 81. Evonik Industries AG (Listed, Essen Germany) Major Business

Table 82. Evonik Industries AG (Listed, Essen Germany) Medical PEEK Rod Product and Services

Table 83. Evonik Industries AG (Listed, Essen Germany) Medical PEEK Rod Production (Tons), Price (KUS\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Evonik Industries AG (Listed, Essen Germany) Recent Developments/Updates

Table 85. Evonik Industries AG (Listed, Essen Germany) Competitive Strengths & Weaknesses

Table 86. Westlake Plastics Co. (Unlisted, Pennsylvania USA) Basic Information, Manufacturing Base and Competitors

Table 87. Westlake Plastics Co. (Unlisted, Pennsylvania USA) Major Business

Table 88. Westlake Plastics Co. (Unlisted, Pennsylvania USA) Medical PEEK Rod Product and Services

Table 89. Westlake Plastics Co. (Unlisted, Pennsylvania USA) Medical PEEK Rod Production (Tons), Price (KUS\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Westlake Plastics Co. (Unlisted, Pennsylvania USA) Recent Developments/Updates

Table 91. Westlake Plastics Co. (Unlisted, Pennsylvania USA) Competitive Strengths & Weaknesses

Table 92. Boedeker Plastics, Inc. (Unlisted, Texas USA) Basic Information, Manufacturing Base and Competitors

Table 93. Boedeker Plastics, Inc. (Unlisted, Texas USA) Major Business

Table 94. Boedeker Plastics, Inc. (Unlisted, Texas USA) Medical PEEK Rod Product and Services

Table 95. Boedeker Plastics, Inc. (Unlisted, Texas USA) Medical PEEK Rod Production (Tons), Price (KUS\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Boedeker Plastics, Inc. (Unlisted, Texas USA) Recent Developments/Updates

Table 97. Boedeker Plastics, Inc. (Unlisted, Texas USA) Competitive Strengths & Weaknesses

Table 98. Professional Plastics, Inc. (Unlisted, California USA) Basic Information, Manufacturing Base and Competitors

Table 99. Professional Plastics, Inc. (Unlisted, California USA) Major Business

Table 100. Professional Plastics, Inc. (Unlisted, California USA) Medical PEEK Rod Product and Services

Table 101. Professional Plastics, Inc. (Unlisted, California USA) Medical PEEK Rod Production (Tons), Price (KUS\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Professional Plastics, Inc. (Unlisted, California USA) Recent Developments/Updates

Table 103. Professional Plastics, Inc. (Unlisted, California USA) Competitive Strengths & Weaknesses

Table 104. Emco Industrial Plastics, Inc. (Unlisted, Illinois USA) Basic Information, Manufacturing Base and Competitors

Table 105. Emco Industrial Plastics, Inc. (Unlisted, Illinois USA) Major Business

Table 106. Emco Industrial Plastics, Inc. (Unlisted, Illinois USA) Medical PEEK Rod Product and Services

Table 107. Emco Industrial Plastics, Inc. (Unlisted, Illinois USA) Medical PEEK Rod Production (Tons), Price (KUS\$/Ton), Production Value (USD Million), Gross Margin

and Market Share (2021-2026)

Table 108. Emco Industrial Plastics, Inc. (Unlisted, Illinois USA) Recent Developments/Updates

Table 109. Emco Industrial Plastics, Inc. (Unlisted, Illinois USA) Competitive Strengths & Weaknesses

Table 110. Freudenberg Medical (Unlisted, Weinheim Germany) Basic Information, Manufacturing Base and Competitors

Table 111. Freudenberg Medical (Unlisted, Weinheim Germany) Major Business

Table 112. Freudenberg Medical (Unlisted, Weinheim Germany) Medical PEEK Rod Product and Services

Table 113. Freudenberg Medical (Unlisted, Weinheim Germany) Medical PEEK Rod Production (Tons), Price (KUS\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Freudenberg Medical (Unlisted, Weinheim Germany) Recent Developments/Updates

Table 115. Freudenberg Medical (Unlisted, Weinheim Germany) Competitive Strengths & Weaknesses

Table 116. MyTech Ltd. (Unlisted, Sofia Bulgaria) Basic Information, Manufacturing Base and Competitors

Table 117. MyTech Ltd. (Unlisted, Sofia Bulgaria) Major Business

Table 118. MyTech Ltd. (Unlisted, Sofia Bulgaria) Medical PEEK Rod Product and Services

Table 119. MyTech Ltd. (Unlisted, Sofia Bulgaria) Medical PEEK Rod Production (Tons), Price (KUS\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. MyTech Ltd. (Unlisted, Sofia Bulgaria) Recent Developments/Updates

Table 121. MyTech Ltd. (Unlisted, Sofia Bulgaria) Competitive Strengths & Weaknesses

Table 122. Petron Thermoplast (Unlisted,Uttar Pradesh India) Basic Information, Manufacturing Base and Competitors

Table 123. Petron Thermoplast (Unlisted,Uttar Pradesh India) Major Business

Table 124. Petron Thermoplast (Unlisted,Uttar Pradesh India) Medical PEEK Rod Product and Services

Table 125. Petron Thermoplast (Unlisted,Uttar Pradesh India) Medical PEEK Rod Production (Tons), Price (KUS\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Petron Thermoplast (Unlisted,Uttar Pradesh India) Recent Developments/Updates

Table 127. Petron Thermoplast (Unlisted,Uttar Pradesh India) Competitive Strengths & Weaknesses

Table 128. Jiangsu Junhua Special Engineering Plastics Products Co., Ltd. (Unlisted, Jiangsu China) Basic Information, Manufacturing Base and Competitors

Table 129. Jiangsu Junhua Special Engineering Plastics Products Co., Ltd. (Unlisted, Jiangsu China) Major Business

Table 130. Jiangsu Junhua Special Engineering Plastics Products Co., Ltd. (Unlisted, Jiangsu China) Medical PEEK Rod Product and Services

Table 131. Jiangsu Junhua Special Engineering Plastics Products Co., Ltd. (Unlisted, Jiangsu China) Medical PEEK Rod Production (Tons), Price (KUS\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Jiangsu Junhua Special Engineering Plastics Products Co., Ltd. (Unlisted, Jiangsu China) Recent Developments/Updates

Table 133. Jiangsu Junhua Special Engineering Plastics Products Co., Ltd. (Unlisted, Jiangsu China) Competitive Strengths & Weaknesses

Table 134. Shanghai Metal Corporation (Unlisted, Shanghai China) Basic Information, Manufacturing Base and Competitors

Table 135. Shanghai Metal Corporation (Unlisted, Shanghai China) Major Business

Table 136. Shanghai Metal Corporation (Unlisted, Shanghai China) Medical PEEK Rod Product and Services

Table 137. Shanghai Metal Corporation (Unlisted, Shanghai China) Medical PEEK Rod Production (Tons), Price (KUS\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Shanghai Metal Corporation (Unlisted, Shanghai China) Recent Developments/Updates

Table 139. Shanghai Metal Corporation (Unlisted, Shanghai China) Competitive Strengths & Weaknesses

Table 140. Nanjing Shousu Special Engineering Plastics Products Co., Ltd. (Unlisted, Nanjing China) Basic Information, Manufacturing Base and Competitors

Table 141. Nanjing Shousu Special Engineering Plastics Products Co., Ltd. (Unlisted, Nanjing China) Major Business

Table 142. Nanjing Shousu Special Engineering Plastics Products Co., Ltd. (Unlisted, Nanjing China) Medical PEEK Rod Product and Services

Table 143. Nanjing Shousu Special Engineering Plastics Products Co., Ltd. (Unlisted, Nanjing China) Medical PEEK Rod Production (Tons), Price (KUS\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. Nanjing Shousu Special Engineering Plastics Products Co., Ltd. (Unlisted, Nanjing China) Recent Developments/Updates

Table 145. Nanjing Shousu Special Engineering Plastics Products Co., Ltd. (Unlisted, Nanjing China) Competitive Strengths & Weaknesses

Table 146. Guangzhou Junsun Medical (Unlisted, Guangzhou China) Basic Information,

## Manufacturing Base and Competitors

Table 147. Guangzhou Junsun Medical (Unlisted, Guangzhou China) Major Business

Table 148. Guangzhou Junsun Medical (Unlisted, Guangzhou China) Medical PEEK Rod Product and Services

Table 149. Guangzhou Junsun Medical (Unlisted, Guangzhou China) Medical PEEK Rod Production (Tons), Price (KUS\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. Guangzhou Junsun Medical (Unlisted, Guangzhou China) Recent Developments/Updates

Table 151. Guangzhou Junsun Medical (Unlisted, Guangzhou China) Competitive Strengths & Weaknesses

Table 152. Global Key Players of Medical PEEK Rod Upstream (Raw Materials)

Table 153. Global Medical PEEK Rod Typical Customers

Table 154. Medical PEEK Rod Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Medical PEEK Rod Picture

Figure 2. World Medical PEEK Rod Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Medical PEEK Rod Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Medical PEEK Rod Production (2021-2032) & (Tons)

Figure 5. World Medical PEEK Rod Average Price (2021-2032) & (KUS\$/Ton)

Figure 6. World Medical PEEK Rod Production Value Market Share by Region (2021-2032)

Figure 7. World Medical PEEK Rod Production Market Share by Region (2021-2032)

Figure 8. North America Medical PEEK Rod Production (2021-2032) & (Tons)

Figure 9. Europe Medical PEEK Rod Production (2021-2032) & (Tons)

Figure 10. China Medical PEEK Rod Production (2021-2032) & (Tons)

Figure 11. Japan Medical PEEK Rod Production (2021-2032) & (Tons)

Figure 12. India Medical PEEK Rod Production (2021-2032) & (Tons)

Figure 13. Southeast Asia Medical PEEK Rod Production (2021-2032) & (Tons)

Figure 14. Medical PEEK Rod Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Medical PEEK Rod Consumption (2021-2032) & (Tons)

Figure 17. World Medical PEEK Rod Consumption Market Share by Region (2021-2032)

Figure 18. United States Medical PEEK Rod Consumption (2021-2032) & (Tons)

Figure 19. China Medical PEEK Rod Consumption (2021-2032) & (Tons)

Figure 20. Europe Medical PEEK Rod Consumption (2021-2032) & (Tons)

Figure 21. Japan Medical PEEK Rod Consumption (2021-2032) & (Tons)

Figure 22. South Korea Medical PEEK Rod Consumption (2021-2032) & (Tons)

Figure 23. ASEAN Medical PEEK Rod Consumption (2021-2032) & (Tons)

Figure 24. India Medical PEEK Rod Consumption (2021-2032) & (Tons)

Figure 25. Producer Shipments of Medical PEEK Rod by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Medical PEEK Rod Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Medical PEEK Rod Markets in 2025

Figure 28. United States VS China: Medical PEEK Rod Production Value Market Share

Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Medical PEEK Rod Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Medical PEEK Rod Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Medical PEEK Rod Production Market Share 2025

Figure 32. China Based Manufacturers Medical PEEK Rod Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Medical PEEK Rod Production Market Share 2025

Figure 34. World Medical PEEK Rod Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Medical PEEK Rod Production Value Market Share by Type in 2025

Figure 36. Extruded Medical PEEK Rod

Figure 37. Compression Molded Medical PEEK Rod

Figure 38. World Medical PEEK Rod Production Market Share by Type (2021-2032)

Figure 39. World Medical PEEK Rod Production Value Market Share by Type (2021-2032)

Figure 40. World Medical PEEK Rod Average Price by Type (2021-2032) & (KUS\$/Ton)

Figure 41. World Medical PEEK Rod Production Value by Clinical Function, (USD Million), 2021 & 2025 & 2032

Figure 42. World Medical PEEK Rod Production Value Market Share by Clinical Function in 2025

Figure 43. Anatomically Matched Type

Figure 44. Porous Structure

Figure 45. Pre-assembled Type

Figure 46. World Medical PEEK Rod Production Market Share by Clinical Function (2021-2032)

Figure 47. World Medical PEEK Rod Production Value Market Share by Clinical Function (2021-2032)

Figure 48. World Medical PEEK Rod Average Price by Clinical Function (2021-2032) & (KUS\$/Ton)

Figure 49. World Medical PEEK Rod Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 50. World Medical PEEK Rod Production Value Market Share by Application in 2025

Figure 51. Orthopedic

Figure 52. Dental and Maxillofacial Surgery

Figure 53. Cardiovascular Surgery

Figure 54. Surgical Instrument

Figure 55. Other

Figure 56. World Medical PEEK Rod Production Market Share by Application  
(2021-2032)

Figure 57. World Medical PEEK Rod Production Value Market Share by Application  
(2021-2032)

Figure 58. World Medical PEEK Rod Average Price by Application (2021-2032) &  
(KUS\$/Ton)

Figure 59. Medical PEEK Rod Industry Chain

Figure 60. Medical PEEK Rod Procurement Model

Figure 61. Medical PEEK Rod Sales Model

Figure 62. Medical PEEK Rod Sales Channels, Direct Sales, and Distribution

Figure 63. Methodology

Figure 64. Research Process and Data Source

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