

# Global High Temperature Polyimide Resin Market Growth 2026-2032

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## Abstracts

The global High Temperature Polyimide Resin market size is predicted to grow from US\$ 4165 million in 2025 to US\$ 7404 million in 2032; it is expected to grow at a CAGR of 8.6% from 2026 to 2032.

High Temperature Polyimide Resin is an ultra-high-performance polymer engineered to retain mechanical strength, dielectric stability, and chemical resistance under continuous operating temperatures of 260–400 °C, making it indispensable in aerospace structures, semiconductor manufacturing, EV insulation systems, wire enamels, flexible circuits, and thermal barrier components. Its supply chain begins with upstream aromatic dianhydrides (e.g., PMDA, BPDA) and diamines (e.g., ODA, PPD), largely produced by specialty chemical companies, which are polymerized by resin formulators into polyamic acid precursors and then imidized into thermoset or thermoplastic polyimide resins; midstream players compound these resins into films, varnishes, coatings, fibers, laminates, and molding compounds; downstream converters integrate them into components such as FPC substrates, slot liners, motor insulation, semiconductor carriers, and aerospace composites, which are finally adopted by OEMs in electronics, energy, transportation, and defense—creating a vertically specialized chain where material purity, thermal performance, and processability determine both yield and market positioning. In 2025, global High Temperature Polyimide Resin production reached approximately 168,000 tons, supported by an installed manufacturing capacity of about 195,000 tons. The segment operates at a high value point, with average unit prices ranging from USD 21,000 to 46,000 per ton, while sustaining industry-wide gross margins of roughly 43%.

United States market for High Temperature Polyimide Resin is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through

2032.

China market for High Temperature Polyimide Resin is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for High Temperature Polyimide Resin is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key High Temperature Polyimide Resin players cover DuPont (USA), Kaneka (Japan), Ube Industries (Japan), Toray Industries (Japan), Showa Denko (Japan), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "High Temperature Polyimide Resin Industry Forecast" looks at past sales and reviews total world High Temperature Polyimide Resin sales in 2025, providing a comprehensive analysis by region and market sector of projected High Temperature Polyimide Resin sales for 2026 through 2032. With High Temperature Polyimide Resin sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High Temperature Polyimide Resin industry.

This Insight Report provides a comprehensive analysis of the global High Temperature Polyimide Resin landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on High Temperature Polyimide Resin portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High Temperature Polyimide Resin market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High Temperature Polyimide Resin and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global High Temperature Polyimide Resin.

This report presents a comprehensive overview, market shares, and growth opportunities of High Temperature Polyimide Resin market by product type, application,

key manufacturers and key regions and countries.

Segmentation by Type:

Thermoset Polyimide Resin

Thermoplastic Polyimide Resin

Segmentation by Service Temperature:

High Temperature (240–280 °C)

Ultra High Temperature (280–350 °C)

Extreme Temperature (>350 °C)

Segmentation by Application:

Semiconductor & Electronic

Aerospace & Defense

Industrial Equipment

Telecom Electronic

Energy & Power System

Rail & Transportation

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

DuPont (USA)

Kaneka (Japan)

Ube Industries (Japan)

Toray Industries (Japan)

Showa Denko (Japan)

PI Advanced Materials (South Korea)

Kolon Industries (South Korea)

Mitsui Chemicals (Japan)

Sumitomo Chemical (Japan)

AGC Group (Japan)

Von Roll Holding (Switzerland)

Wuhan Imide New Materials (China)

Yashima Proceed (Japan)

IST Corporation (Japan)

### Key Questions Addressed in this Report

What is the 10-year outlook for the global High Temperature Polyimide Resin market?

What factors are driving High Temperature Polyimide Resin market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do High Temperature Polyimide Resin market opportunities vary by end market size?

How does High Temperature Polyimide Resin break out by Type, by Application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

#### 2.1 World Market Overview

- 2.1.1 Global High Temperature Polyimide Resin Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for High Temperature Polyimide Resin by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for High Temperature Polyimide Resin by Country/Region, 2021, 2025 & 2032

#### 2.2 High Temperature Polyimide Resin Segment by Type

- 2.2.1 Thermoset Polyimide Resin
- 2.2.2 Thermoplastic Polyimide Resin
- 2.2.3 High Temperature Polyimide Resin Sales by Type
  - 2.2.3.1 Global High Temperature Polyimide Resin Sales Market Share by Type (2021-2026)
  - 2.2.3.2 Global High Temperature Polyimide Resin Revenue and Market Share by Type (2021-2026)
  - 2.2.3.3 Global High Temperature Polyimide Resin Sale Price by Type (2021-2026)

#### 2.3 High Temperature Polyimide Resin Segment by Service Temperature

- 2.3.1 High Temperature (240–280 °C)
- 2.3.2 Ultra High Temperature (280–350 °C)
- 2.3.3 Extreme Temperature (>350 °C)
- 2.3.4 High Temperature Polyimide Resin Sales by Service Temperature
  - 2.3.4.1 Global High Temperature Polyimide Resin Sales Market Share by Service Temperature (2021-2026)
  - 2.3.4.2 Global High Temperature Polyimide Resin Revenue and Market Share by Service Temperature (2021-2026)

2.3.4.3 Global High Temperature Polyimide Resin Sale Price by Service Temperature (2021-2026)

2.4 High Temperature Polyimide Resin Segment by Application

2.4.1 Semiconductor & Electronic

2.4.2 Aerospace & Defense

2.4.3 Industrial Equipment

2.4.4 Telecom Electronic

2.4.5 Energy & Power System

2.4.6 Rail & Transportation

2.4.7 Others

2.4.8 High Temperature Polyimide Resin Sales by Application

2.4.8.1 Global High Temperature Polyimide Resin Sale Market Share by Application (2021-2026)

2.4.8.2 Global High Temperature Polyimide Resin Revenue and Market Share by Application (2021-2026)

2.4.8.3 Global High Temperature Polyimide Resin Sale Price by Application (2021-2026)

### **3 GLOBAL BY COMPANY**

3.1 Global High Temperature Polyimide Resin Breakdown Data by Company

3.1.1 Global High Temperature Polyimide Resin Annual Sales by Company (2021-2026)

3.1.2 Global High Temperature Polyimide Resin Sales Market Share by Company (2021-2026)

3.2 Global High Temperature Polyimide Resin Annual Revenue by Company (2021-2026)

3.2.1 Global High Temperature Polyimide Resin Revenue by Company (2021-2026)

3.2.2 Global High Temperature Polyimide Resin Revenue Market Share by Company (2021-2026)

3.3 Global High Temperature Polyimide Resin Sale Price by Company

3.4 Key Manufacturers High Temperature Polyimide Resin Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers High Temperature Polyimide Resin Product Location Distribution

3.4.2 Players High Temperature Polyimide Resin Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

## **4 WORLD HISTORIC REVIEW FOR HIGH TEMPERATURE POLYIMIDE RESIN BY GEOGRAPHIC REGION**

4.1 World Historic High Temperature Polyimide Resin Market Size by Geographic Region (2021-2026)

4.1.1 Global High Temperature Polyimide Resin Annual Sales by Geographic Region (2021-2026)

4.1.2 Global High Temperature Polyimide Resin Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic High Temperature Polyimide Resin Market Size by Country/Region (2021-2026)

4.2.1 Global High Temperature Polyimide Resin Annual Sales by Country/Region (2021-2026)

4.2.2 Global High Temperature Polyimide Resin Annual Revenue by Country/Region (2021-2026)

4.3 Americas High Temperature Polyimide Resin Sales Growth

4.4 APAC High Temperature Polyimide Resin Sales Growth

4.5 Europe High Temperature Polyimide Resin Sales Growth

4.6 Middle East & Africa High Temperature Polyimide Resin Sales Growth

## **5 AMERICAS**

5.1 Americas High Temperature Polyimide Resin Sales by Country

5.1.1 Americas High Temperature Polyimide Resin Sales by Country (2021-2026)

5.1.2 Americas High Temperature Polyimide Resin Revenue by Country (2021-2026)

5.2 Americas High Temperature Polyimide Resin Sales by Type (2021-2026)

5.3 Americas High Temperature Polyimide Resin Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC High Temperature Polyimide Resin Sales by Region

6.1.1 APAC High Temperature Polyimide Resin Sales by Region (2021-2026)

- 6.1.2 APAC High Temperature Polyimide Resin Revenue by Region (2021-2026)
- 6.2 APAC High Temperature Polyimide Resin Sales by Type (2021-2026)
- 6.3 APAC High Temperature Polyimide Resin Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

## **7 EUROPE**

- 7.1 Europe High Temperature Polyimide Resin by Country
  - 7.1.1 Europe High Temperature Polyimide Resin Sales by Country (2021-2026)
  - 7.1.2 Europe High Temperature Polyimide Resin Revenue by Country (2021-2026)
- 7.2 Europe High Temperature Polyimide Resin Sales by Type (2021-2026)
- 7.3 Europe High Temperature Polyimide Resin Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

- 8.1 Middle East & Africa High Temperature Polyimide Resin by Country
  - 8.1.1 Middle East & Africa High Temperature Polyimide Resin Sales by Country (2021-2026)
  - 8.1.2 Middle East & Africa High Temperature Polyimide Resin Revenue by Country (2021-2026)
- 8.2 Middle East & Africa High Temperature Polyimide Resin Sales by Type (2021-2026)
- 8.3 Middle East & Africa High Temperature Polyimide Resin Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of High Temperature Polyimide Resin
- 10.3 Manufacturing Process Analysis of High Temperature Polyimide Resin
- 10.4 Industry Chain Structure of High Temperature Polyimide Resin

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

- 11.1 Sales Channel
  - 11.1.1 Direct Channels
  - 11.1.2 Indirect Channels
- 11.2 High Temperature Polyimide Resin Distributors
- 11.3 High Temperature Polyimide Resin Customer

## **12 WORLD FORECAST REVIEW FOR HIGH TEMPERATURE POLYIMIDE RESIN BY GEOGRAPHIC REGION**

- 12.1 Global High Temperature Polyimide Resin Market Size Forecast by Region
  - 12.1.1 Global High Temperature Polyimide Resin Forecast by Region (2027-2032)
  - 12.1.2 Global High Temperature Polyimide Resin Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global High Temperature Polyimide Resin Forecast by Type (2027-2032)
- 12.7 Global High Temperature Polyimide Resin Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

- 13.1 DuPont (USA)

- 13.1.1 DuPont (USA) Company Information
- 13.1.2 DuPont (USA) High Temperature Polyimide Resin Product Portfolios and Specifications
- 13.1.3 DuPont (USA) High Temperature Polyimide Resin Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 DuPont (USA) Main Business Overview
- 13.1.5 DuPont (USA) Latest Developments
- 13.2 Kaneka (Japan)
- 13.2.1 Kaneka (Japan) Company Information
- 13.2.2 Kaneka (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications
- 13.2.3 Kaneka (Japan) High Temperature Polyimide Resin Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Kaneka (Japan) Main Business Overview
- 13.2.5 Kaneka (Japan) Latest Developments
- 13.3 Ube Industries (Japan)
- 13.3.1 Ube Industries (Japan) Company Information
- 13.3.2 Ube Industries (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications
- 13.3.3 Ube Industries (Japan) High Temperature Polyimide Resin Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Ube Industries (Japan) Main Business Overview
- 13.3.5 Ube Industries (Japan) Latest Developments
- 13.4 Toray Industries (Japan)
- 13.4.1 Toray Industries (Japan) Company Information
- 13.4.2 Toray Industries (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications
- 13.4.3 Toray Industries (Japan) High Temperature Polyimide Resin Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.4.4 Toray Industries (Japan) Main Business Overview
- 13.4.5 Toray Industries (Japan) Latest Developments
- 13.5 Showa Denko (Japan)
- 13.5.1 Showa Denko (Japan) Company Information
- 13.5.2 Showa Denko (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications
- 13.5.3 Showa Denko (Japan) High Temperature Polyimide Resin Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.5.4 Showa Denko (Japan) Main Business Overview
- 13.5.5 Showa Denko (Japan) Latest Developments

## 13.6 PI Advanced Materials (South Korea)

13.6.1 PI Advanced Materials (South Korea) Company Information

13.6.2 PI Advanced Materials (South Korea) High Temperature Polyimide Resin Product Portfolios and Specifications

13.6.3 PI Advanced Materials (South Korea) High Temperature Polyimide Resin Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 PI Advanced Materials (South Korea) Main Business Overview

13.6.5 PI Advanced Materials (South Korea) Latest Developments

## 13.7 Kolon Industries (South Korea)

13.7.1 Kolon Industries (South Korea) Company Information

13.7.2 Kolon Industries (South Korea) High Temperature Polyimide Resin Product Portfolios and Specifications

13.7.3 Kolon Industries (South Korea) High Temperature Polyimide Resin Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Kolon Industries (South Korea) Main Business Overview

13.7.5 Kolon Industries (South Korea) Latest Developments

## 13.8 Mitsui Chemicals (Japan)

13.8.1 Mitsui Chemicals (Japan) Company Information

13.8.2 Mitsui Chemicals (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications

13.8.3 Mitsui Chemicals (Japan) High Temperature Polyimide Resin Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Mitsui Chemicals (Japan) Main Business Overview

13.8.5 Mitsui Chemicals (Japan) Latest Developments

## 13.9 Sumitomo Chemical (Japan)

13.9.1 Sumitomo Chemical (Japan) Company Information

13.9.2 Sumitomo Chemical (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications

13.9.3 Sumitomo Chemical (Japan) High Temperature Polyimide Resin Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Sumitomo Chemical (Japan) Main Business Overview

13.9.5 Sumitomo Chemical (Japan) Latest Developments

## 13.10 AGC Group (Japan)

13.10.1 AGC Group (Japan) Company Information

13.10.2 AGC Group (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications

13.10.3 AGC Group (Japan) High Temperature Polyimide Resin Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 AGC Group (Japan) Main Business Overview

- 13.10.5 AGC Group (Japan) Latest Developments
- 13.11 Von Roll Holding (Switzerland)
  - 13.11.1 Von Roll Holding (Switzerland) Company Information
  - 13.11.2 Von Roll Holding (Switzerland) High Temperature Polyimide Resin Product Portfolios and Specifications
  - 13.11.3 Von Roll Holding (Switzerland) High Temperature Polyimide Resin Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.11.4 Von Roll Holding (Switzerland) Main Business Overview
  - 13.11.5 Von Roll Holding (Switzerland) Latest Developments
- 13.12 Wuhan Imide New Materials (China)
  - 13.12.1 Wuhan Imide New Materials (China) Company Information
  - 13.12.2 Wuhan Imide New Materials (China) High Temperature Polyimide Resin Product Portfolios and Specifications
  - 13.12.3 Wuhan Imide New Materials (China) High Temperature Polyimide Resin Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.12.4 Wuhan Imide New Materials (China) Main Business Overview
  - 13.12.5 Wuhan Imide New Materials (China) Latest Developments
- 13.13 Yashima Proceed (Japan)
  - 13.13.1 Yashima Proceed (Japan) Company Information
  - 13.13.2 Yashima Proceed (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications
  - 13.13.3 Yashima Proceed (Japan) High Temperature Polyimide Resin Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.13.4 Yashima Proceed (Japan) Main Business Overview
  - 13.13.5 Yashima Proceed (Japan) Latest Developments
- 13.14 IST Corporation (Japan)
  - 13.14.1 IST Corporation (Japan) Company Information
  - 13.14.2 IST Corporation (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications
  - 13.14.3 IST Corporation (Japan) High Temperature Polyimide Resin Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.14.4 IST Corporation (Japan) Main Business Overview
  - 13.14.5 IST Corporation (Japan) Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. High Temperature Polyimide Resin Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. High Temperature Polyimide Resin Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Thermoset Polyimide Resin

Table 4. Major Players of Thermoplastic Polyimide Resin

Table 5. Global High Temperature Polyimide Resin Sales by Type (2021-2026) & (Tons)

Table 6. Global High Temperature Polyimide Resin Sales Market Share by Type (2021-2026)

Table 7. Global High Temperature Polyimide Resin Revenue by Type (2021-2026) & (\$ million)

Table 8. Global High Temperature Polyimide Resin Revenue Market Share by Type (2021-2026)

Table 9. Global High Temperature Polyimide Resin Sale Price by Type (2021-2026) & (US\$/Ton)

Table 10. Major Players of High Temperature (240–280 °C)

Table 11. Major Players of Ultra High Temperature (280–350 °C)

Table 12. Major Players of Extreme Temperature (>350 °C)

Table 13. Global High Temperature Polyimide Resin Sales by Service Temperature (2021-2026) & (Tons)

Table 14. Global High Temperature Polyimide Resin Sales Market Share by Service Temperature (2021-2026)

Table 15. Global High Temperature Polyimide Resin Revenue by Service Temperature (2021-2026) & (\$ million)

Table 16. Global High Temperature Polyimide Resin Revenue Market Share by Service Temperature (2021-2026)

Table 17. Global High Temperature Polyimide Resin Sale Price by Service Temperature (2021-2026) & (US\$/Ton)

Table 18. Global High Temperature Polyimide Resin Sale by Application (2021-2026) & (Tons)

Table 19. Global High Temperature Polyimide Resin Sale Market Share by Application (2021-2026)

Table 20. Global High Temperature Polyimide Resin Revenue by Application (2021-2026) & (\$ million)

Table 21. Global High Temperature Polyimide Resin Revenue Market Share by Application (2021-2026)

Table 22. Global High Temperature Polyimide Resin Sale Price by Application (2021-2026) & (US\$/Ton)

Table 23. Global High Temperature Polyimide Resin Sales by Company (2021-2026) & (Tons)

Table 24. Global High Temperature Polyimide Resin Sales Market Share by Company (2021-2026)

Table 25. Global High Temperature Polyimide Resin Revenue by Company (2021-2026) & (\$ millions)

Table 26. Global High Temperature Polyimide Resin Revenue Market Share by Company (2021-2026)

Table 27. Global High Temperature Polyimide Resin Sale Price by Company (2021-2026) & (US\$/Ton)

Table 28. Key Manufacturers High Temperature Polyimide Resin Producing Area Distribution and Sales Area

Table 29. Players High Temperature Polyimide Resin Products Offered

Table 30. High Temperature Polyimide Resin Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 31. New Products and Potential Entrants

Table 32. Market M&A Activity & Strategy

Table 33. Global High Temperature Polyimide Resin Sales by Geographic Region (2021-2026) & (Tons)

Table 34. Global High Temperature Polyimide Resin Sales Market Share Geographic Region (2021-2026)

Table 35. Global High Temperature Polyimide Resin Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 36. Global High Temperature Polyimide Resin Revenue Market Share by Geographic Region (2021-2026)

Table 37. Global High Temperature Polyimide Resin Sales by Country/Region (2021-2026) & (Tons)

Table 38. Global High Temperature Polyimide Resin Sales Market Share by Country/Region (2021-2026)

Table 39. Global High Temperature Polyimide Resin Revenue by Country/Region (2021-2026) & (\$ millions)

Table 40. Global High Temperature Polyimide Resin Revenue Market Share by Country/Region (2021-2026)

Table 41. Americas High Temperature Polyimide Resin Sales by Country (2021-2026) & (Tons)

Table 42. Americas High Temperature Polyimide Resin Sales Market Share by Country (2021-2026)

Table 43. Americas High Temperature Polyimide Resin Revenue by Country (2021-2026) & (\$ millions)

Table 44. Americas High Temperature Polyimide Resin Sales by Type (2021-2026) & (Tons)

Table 45. Americas High Temperature Polyimide Resin Sales by Application (2021-2026) & (Tons)

Table 46. APAC High Temperature Polyimide Resin Sales by Region (2021-2026) & (Tons)

Table 47. APAC High Temperature Polyimide Resin Sales Market Share by Region (2021-2026)

Table 48. APAC High Temperature Polyimide Resin Revenue by Region (2021-2026) & (\$ millions)

Table 49. APAC High Temperature Polyimide Resin Sales by Type (2021-2026) & (Tons)

Table 50. APAC High Temperature Polyimide Resin Sales by Application (2021-2026) & (Tons)

Table 51. Europe High Temperature Polyimide Resin Sales by Country (2021-2026) & (Tons)

Table 52. Europe High Temperature Polyimide Resin Revenue by Country (2021-2026) & (\$ millions)

Table 53. Europe High Temperature Polyimide Resin Sales by Type (2021-2026) & (Tons)

Table 54. Europe High Temperature Polyimide Resin Sales by Application (2021-2026) & (Tons)

Table 55. Middle East & Africa High Temperature Polyimide Resin Sales by Country (2021-2026) & (Tons)

Table 56. Middle East & Africa High Temperature Polyimide Resin Revenue Market Share by Country (2021-2026)

Table 57. Middle East & Africa High Temperature Polyimide Resin Sales by Type (2021-2026) & (Tons)

Table 58. Middle East & Africa High Temperature Polyimide Resin Sales by Application (2021-2026) & (Tons)

Table 59. Key Market Drivers & Growth Opportunities of High Temperature Polyimide Resin

Table 60. Key Market Challenges & Risks of High Temperature Polyimide Resin

Table 61. Key Industry Trends of High Temperature Polyimide Resin

Table 62. High Temperature Polyimide Resin Raw Material

- Table 63. Key Suppliers of Raw Materials
- Table 64. High Temperature Polyimide Resin Distributors List
- Table 65. High Temperature Polyimide Resin Customer List
- Table 66. Global High Temperature Polyimide Resin Sales Forecast by Region (2027-2032) & (Tons)
- Table 67. Global High Temperature Polyimide Resin Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 68. Americas High Temperature Polyimide Resin Sales Forecast by Country (2027-2032) & (Tons)
- Table 69. Americas High Temperature Polyimide Resin Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 70. APAC High Temperature Polyimide Resin Sales Forecast by Region (2027-2032) & (Tons)
- Table 71. APAC High Temperature Polyimide Resin Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 72. Europe High Temperature Polyimide Resin Sales Forecast by Country (2027-2032) & (Tons)
- Table 73. Europe High Temperature Polyimide Resin Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 74. Middle East & Africa High Temperature Polyimide Resin Sales Forecast by Country (2027-2032) & (Tons)
- Table 75. Middle East & Africa High Temperature Polyimide Resin Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 76. Global High Temperature Polyimide Resin Sales Forecast by Type (2027-2032) & (Tons)
- Table 77. Global High Temperature Polyimide Resin Revenue Forecast by Type (2027-2032) & (\$ millions)
- Table 78. Global High Temperature Polyimide Resin Sales Forecast by Application (2027-2032) & (Tons)
- Table 79. Global High Temperature Polyimide Resin Revenue Forecast by Application (2027-2032) & (\$ millions)
- Table 80. DuPont (USA) Basic Information, High Temperature Polyimide Resin Manufacturing Base, Sales Area and Its Competitors
- Table 81. DuPont (USA) High Temperature Polyimide Resin Product Portfolios and Specifications
- Table 82. DuPont (USA) High Temperature Polyimide Resin Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 83. DuPont (USA) Main Business
- Table 84. DuPont (USA) Latest Developments

Table 85. Kaneka (Japan) Basic Information, High Temperature Polyimide Resin Manufacturing Base, Sales Area and Its Competitors

Table 86. Kaneka (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications

Table 87. Kaneka (Japan) High Temperature Polyimide Resin Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 88. Kaneka (Japan) Main Business

Table 89. Kaneka (Japan) Latest Developments

Table 90. Ube Industries (Japan) Basic Information, High Temperature Polyimide Resin Manufacturing Base, Sales Area and Its Competitors

Table 91. Ube Industries (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications

Table 92. Ube Industries (Japan) High Temperature Polyimide Resin Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 93. Ube Industries (Japan) Main Business

Table 94. Ube Industries (Japan) Latest Developments

Table 95. Toray Industries (Japan) Basic Information, High Temperature Polyimide Resin Manufacturing Base, Sales Area and Its Competitors

Table 96. Toray Industries (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications

Table 97. Toray Industries (Japan) High Temperature Polyimide Resin Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 98. Toray Industries (Japan) Main Business

Table 99. Toray Industries (Japan) Latest Developments

Table 100. Showa Denko (Japan) Basic Information, High Temperature Polyimide Resin Manufacturing Base, Sales Area and Its Competitors

Table 101. Showa Denko (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications

Table 102. Showa Denko (Japan) High Temperature Polyimide Resin Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 103. Showa Denko (Japan) Main Business

Table 104. Showa Denko (Japan) Latest Developments

Table 105. PI Advanced Materials (South Korea) Basic Information, High Temperature Polyimide Resin Manufacturing Base, Sales Area and Its Competitors

Table 106. PI Advanced Materials (South Korea) High Temperature Polyimide Resin Product Portfolios and Specifications

Table 107. PI Advanced Materials (South Korea) High Temperature Polyimide Resin Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 108. PI Advanced Materials (South Korea) Main Business

- Table 109. PI Advanced Materials (South Korea) Latest Developments
- Table 110. Kolon Industries (South Korea) Basic Information, High Temperature Polyimide Resin Manufacturing Base, Sales Area and Its Competitors
- Table 111. Kolon Industries (South Korea) High Temperature Polyimide Resin Product Portfolios and Specifications
- Table 112. Kolon Industries (South Korea) High Temperature Polyimide Resin Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 113. Kolon Industries (South Korea) Main Business
- Table 114. Kolon Industries (South Korea) Latest Developments
- Table 115. Mitsui Chemicals (Japan) Basic Information, High Temperature Polyimide Resin Manufacturing Base, Sales Area and Its Competitors
- Table 116. Mitsui Chemicals (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications
- Table 117. Mitsui Chemicals (Japan) High Temperature Polyimide Resin Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 118. Mitsui Chemicals (Japan) Main Business
- Table 119. Mitsui Chemicals (Japan) Latest Developments
- Table 120. Sumitomo Chemical (Japan) Basic Information, High Temperature Polyimide Resin Manufacturing Base, Sales Area and Its Competitors
- Table 121. Sumitomo Chemical (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications
- Table 122. Sumitomo Chemical (Japan) High Temperature Polyimide Resin Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 123. Sumitomo Chemical (Japan) Main Business
- Table 124. Sumitomo Chemical (Japan) Latest Developments
- Table 125. AGC Group (Japan) Basic Information, High Temperature Polyimide Resin Manufacturing Base, Sales Area and Its Competitors
- Table 126. AGC Group (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications
- Table 127. AGC Group (Japan) High Temperature Polyimide Resin Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 128. AGC Group (Japan) Main Business
- Table 129. AGC Group (Japan) Latest Developments
- Table 130. Von Roll Holding (Switzerland) Basic Information, High Temperature Polyimide Resin Manufacturing Base, Sales Area and Its Competitors
- Table 131. Von Roll Holding (Switzerland) High Temperature Polyimide Resin Product Portfolios and Specifications
- Table 132. Von Roll Holding (Switzerland) High Temperature Polyimide Resin Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 133. Von Roll Holding (Switzerland) Main Business

Table 134. Von Roll Holding (Switzerland) Latest Developments

Table 135. Wuhan Imide New Materials (China) Basic Information, High Temperature Polyimide Resin Manufacturing Base, Sales Area and Its Competitors

Table 136. Wuhan Imide New Materials (China) High Temperature Polyimide Resin Product Portfolios and Specifications

Table 137. Wuhan Imide New Materials (China) High Temperature Polyimide Resin Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 138. Wuhan Imide New Materials (China) Main Business

Table 139. Wuhan Imide New Materials (China) Latest Developments

Table 140. Yashima Proceed (Japan) Basic Information, High Temperature Polyimide Resin Manufacturing Base, Sales Area and Its Competitors

Table 141. Yashima Proceed (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications

Table 142. Yashima Proceed (Japan) High Temperature Polyimide Resin Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 143. Yashima Proceed (Japan) Main Business

Table 144. Yashima Proceed (Japan) Latest Developments

Table 145. IST Corporation (Japan) Basic Information, High Temperature Polyimide Resin Manufacturing Base, Sales Area and Its Competitors

Table 146. IST Corporation (Japan) High Temperature Polyimide Resin Product Portfolios and Specifications

Table 147. IST Corporation (Japan) High Temperature Polyimide Resin Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 148. IST Corporation (Japan) Main Business

Table 149. IST Corporation (Japan) Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of High Temperature Polyimide Resin
- Figure 2. High Temperature Polyimide Resin Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global High Temperature Polyimide Resin Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global High Temperature Polyimide Resin Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. High Temperature Polyimide Resin Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. High Temperature Polyimide Resin Sales Market Share by Country/Region (2025)
- Figure 10. High Temperature Polyimide Resin Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Thermoset Polyimide Resin
- Figure 12. Product Picture of Thermoplastic Polyimide Resin
- Figure 13. Global High Temperature Polyimide Resin Sales Market Share by Type in 2026
- Figure 14. Global High Temperature Polyimide Resin Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of High Temperature (240–280 °C)
- Figure 16. Product Picture of Ultra High Temperature (280–350 °C)
- Figure 17. Product Picture of Extreme Temperature (>350 °C)
- Figure 18. Global High Temperature Polyimide Resin Sales Market Share by Service Temperature in 2026
- Figure 19. Global High Temperature Polyimide Resin Revenue Market Share by Service Temperature (2021-2026)
- Figure 20. High Temperature Polyimide Resin Consumed in Semiconductor & Electronic
- Figure 21. Global High Temperature Polyimide Resin Market: Semiconductor & Electronic (2021-2026) & (Tons)
- Figure 22. High Temperature Polyimide Resin Consumed in Aerospace & Defense
- Figure 23. Global High Temperature Polyimide Resin Market: Aerospace & Defense (2021-2026) & (Tons)

Figure 24. High Temperature Polyimide Resin Consumed in Industrial Equipment

Figure 25. Global High Temperature Polyimide Resin Market: Industrial Equipment (2021-2026) & (Tons)

Figure 26. High Temperature Polyimide Resin Consumed in Telecom Electronic

Figure 27. Global High Temperature Polyimide Resin Market: Telecom Electronic (2021-2026) & (Tons)

Figure 28. High Temperature Polyimide Resin Consumed in Energy & Power System

Figure 29. Global High Temperature Polyimide Resin Market: Energy & Power System (2021-2026) & (Tons)

Figure 30. High Temperature Polyimide Resin Consumed in Rail & Transportation

Figure 31. Global High Temperature Polyimide Resin Market: Rail & Transportation (2021-2026) & (Tons)

Figure 32. High Temperature Polyimide Resin Consumed in Others

Figure 33. Global High Temperature Polyimide Resin Market: Others (2021-2026) & (Tons)

Figure 34. Global High Temperature Polyimide Resin Sale Market Share by Application (2025)

Figure 35. Global High Temperature Polyimide Resin Revenue Market Share by Application in 2026

Figure 36. High Temperature Polyimide Resin Sales by Company in 2026 (Tons)

Figure 37. Global High Temperature Polyimide Resin Sales Market Share by Company in 2026

Figure 38. High Temperature Polyimide Resin Revenue by Company in 2026 (\$ millions)

Figure 39. Global High Temperature Polyimide Resin Revenue Market Share by Company in 2026

Figure 40. Global High Temperature Polyimide Resin Sales Market Share by Geographic Region (2021-2026)

Figure 41. Global High Temperature Polyimide Resin Revenue Market Share by Geographic Region in 2026

Figure 42. Americas High Temperature Polyimide Resin Sales 2021-2026 (Tons)

Figure 43. Americas High Temperature Polyimide Resin Revenue 2021-2026 (\$ millions)

Figure 44. APAC High Temperature Polyimide Resin Sales 2021-2026 (Tons)

Figure 45. APAC High Temperature Polyimide Resin Revenue 2021-2026 (\$ millions)

Figure 46. Europe High Temperature Polyimide Resin Sales 2021-2026 (Tons)

Figure 47. Europe High Temperature Polyimide Resin Revenue 2021-2026 (\$ millions)

Figure 48. Middle East & Africa High Temperature Polyimide Resin Sales 2021-2026 (Tons)

Figure 49. Middle East & Africa High Temperature Polyimide Resin Revenue 2021-2026 (\$ millions)

Figure 50. Americas High Temperature Polyimide Resin Sales Market Share by Country in 2026

Figure 51. Americas High Temperature Polyimide Resin Revenue Market Share by Country (2021-2026)

Figure 52. Americas High Temperature Polyimide Resin Sales Market Share by Type (2021-2026)

Figure 53. Americas High Temperature Polyimide Resin Sales Market Share by Application (2021-2026)

Figure 54. United States High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 55. Canada High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 56. Mexico High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 57. Brazil High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 58. APAC High Temperature Polyimide Resin Sales Market Share by Region in 2026

Figure 59. APAC High Temperature Polyimide Resin Revenue Market Share by Region (2021-2026)

Figure 60. APAC High Temperature Polyimide Resin Sales Market Share by Type (2021-2026)

Figure 61. APAC High Temperature Polyimide Resin Sales Market Share by Application (2021-2026)

Figure 62. China High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 63. Japan High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 64. South Korea High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 65. Southeast Asia High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 66. India High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 67. Australia High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 68. China Taiwan High Temperature Polyimide Resin Revenue Growth

2021-2026 (\$ millions)

Figure 69. Europe High Temperature Polyimide Resin Sales Market Share by Country in 2026

Figure 70. Europe High Temperature Polyimide Resin Revenue Market Share by Country (2021-2026)

Figure 71. Europe High Temperature Polyimide Resin Sales Market Share by Type (2021-2026)

Figure 72. Europe High Temperature Polyimide Resin Sales Market Share by Application (2021-2026)

Figure 73. Germany High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 74. France High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 75. UK High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 76. Italy High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 77. Russia High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 78. Middle East & Africa High Temperature Polyimide Resin Sales Market Share by Country (2021-2026)

Figure 79. Middle East & Africa High Temperature Polyimide Resin Sales Market Share by Type (2021-2026)

Figure 80. Middle East & Africa High Temperature Polyimide Resin Sales Market Share by Application (2021-2026)

Figure 81. Egypt High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 82. South Africa High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 83. Israel High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 84. Turkey High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 85. GCC Countries High Temperature Polyimide Resin Revenue Growth 2021-2026 (\$ millions)

Figure 86. Manufacturing Cost Structure Analysis of High Temperature Polyimide Resin in 2026

Figure 87. Manufacturing Process Analysis of High Temperature Polyimide Resin

Figure 88. Industry Chain Structure of High Temperature Polyimide Resin

Figure 89. Channels of Distribution

Figure 90. Global High Temperature Polyimide Resin Sales Market Forecast by Region (2027-2032)

Figure 91. Global High Temperature Polyimide Resin Revenue Market Share Forecast by Region (2027-2032)

Figure 92. Global High Temperature Polyimide Resin Sales Market Share Forecast by Type (2027-2032)

Figure 93. Global High Temperature Polyimide Resin Revenue Market Share Forecast by Type (2027-2032)

Figure 94. Global High Temperature Polyimide Resin Sales Market Share Forecast by Application (2027-2032)

Figure 95. Global High Temperature Polyimide Resin Revenue Market Share Forecast by Application (2027-2032)

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