

# Global High Temperature Polyimide Resin Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global High Temperature Polyimide Resin market size is expected to reach \$ 7573 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

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%.

This report studies the global High Temperature Polyimide Resin production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Temperature Polyimide Resin 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 High Temperature Polyimide Resin that contribute to its increasing demand across many markets.

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

Global High Temperature Polyimide Resin total production and demand, 2021-2032, (Tons)

Global High Temperature Polyimide Resin total production value, 2021-2032, (USD Million)

Global High Temperature Polyimide Resin production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global High Temperature Polyimide Resin consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: High Temperature Polyimide Resin domestic production, consumption, key domestic manufacturers and share

Global High Temperature Polyimide Resin production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global High Temperature Polyimide Resin production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global High Temperature Polyimide Resin production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global High Temperature Polyimide Resin 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 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), 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 High Temperature Polyimide Resin market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

**Global High Temperature Polyimide Resin Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

**Global High Temperature Polyimide Resin Market, Segmentation by Type:**

Thermoset Polyimide Resin

Thermoplastic Polyimide Resin

**Global High Temperature Polyimide Resin Market, Segmentation by Service Temperature:**

High Temperature (240–280 °C)

Ultra High Temperature (280–350 °C)

Extreme Temperature (>350 °C)

Global High Temperature Polyimide Resin Market, Segmentation by Application:

Semiconductor & Electronic

Aerospace & Defense

Industrial Equipment

Telecom Electronic

Energy & Power System

Rail & Transportation

Others

Companies Profiled:

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 Answered:**

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

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