

Global High Temperature Polyimide Resin Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global High Temperature Polyimide Resin market size was valued at US\$ 4381 million in 2025 and is forecast to a readjusted size of US\$ 7573 million by 2032 with a CAGR of 8.1% during review period.

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 is a detailed and comprehensive analysis for global High Temperature Polyimide Resin market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global High Temperature Polyimide Resin market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global High Temperature Polyimide Resin market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global High Temperature Polyimide Resin market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global High Temperature Polyimide Resin market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for High Temperature Polyimide Resin
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global High Temperature Polyimide Resin market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

High Temperature Polyimide Resin market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Thermoset Polyimide Resin

- Thermoplastic Polyimide Resin

Market segment by Service Temperature

- High Temperature (240–280 °C)

- Ultra High Temperature (280–350 °C)

- Extreme Temperature (>350 °C)

Market segment by Application

- Semiconductor & Electronic

- Aerospace & Defense

- Industrial Equipment

- Telecom Electronic

- Energy & Power System

Rail & Transportation

Others

Major players covered

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)

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe High Temperature Polyimide Resin product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High Temperature Polyimide Resin, with price, sales quantity, revenue, and global market share of High Temperature Polyimide Resin from 2021 to 2026.

Chapter 3, the High Temperature Polyimide Resin competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High Temperature Polyimide Resin breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and High Temperature Polyimide Resin market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of High Temperature Polyimide Resin.

Chapter 14 and 15, to describe High Temperature Polyimide Resin sales channel, distributors, customers, research findings and conclusion.

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