

Global High Temperature Polyimide (PI) Film Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G657DE6C973EEN.html>

Date: April 2026

Pages: 101

Price: US\$ 3,480.00 (Single User License)

ID: G657DE6C973EEN

Abstracts

According to our (Global Info Research) latest study, the global High Temperature Polyimide (PI) Film market size was valued at US\$ 1457 million in 2025 and is forecast to a readjusted size of US\$ 2336 million by 2032 with a CAGR of 7.0% during review period.

In 2025, global high temperature polyimide film production capacity is approximately 145,000 tons, with actual output around 118,000 tons. The average selling price is about US\$12,000 per ton, with electronic-grade ultra-thin films (12.5µm) priced significantly higher. Gross margins typically range between 22% and 38%, depending on monomer cost, film thickness, dielectric grade, and downstream application mix. High-temperature polyimide film is a high-performance polymer film produced through polycondensation of dianhydride and diamine monomers followed by imidization. It is characterized by excellent thermal stability, dielectric strength, mechanical toughness, and chemical resistance. Short-term heat resistance can reach above 400°C without melting, as polyimide is a thermosetting aromatic polymer without a true melting point. The glass transition temperature (T_g) of conventional PI films is generally in the range of 300–360°C, depending on molecular backbone design.

Upstream includes key monomers such as pyromellitic dianhydride (PMDA), biphenyl tetracarboxylic dianhydride (BPDA), and various aromatic diamines, along with high-purity solvents (e.g., NMP). Midstream involves solution casting, stretching, thermal imidization, surface treatment, and slitting. Downstream applications include flexible printed circuits (FPC), semiconductor insulation layers, lithium battery insulation, aerospace wiring insulation, display substrates, and high-temperature label materials. Technological barriers lie in molecular design, ultra-thin film uniformity control, and

dielectric property optimization.

The high temperature polyimide film market is structurally driven by electronics miniaturization and high-frequency communication technologies. Flexible printed circuits, foldable displays, and semiconductor packaging require materials that combine thermal stability with dimensional precision and dielectric reliability. Growth in electric vehicles and energy storage systems further increases demand for high-performance insulation films. Ultra-thin PI films for advanced semiconductor and display applications represent the fastest-growing segment, albeit with high technical barriers and capital intensity. Raw material cost volatility—particularly aromatic dianhydrides—directly impacts profitability. In the medium term, domestic substitution in key markets and supply chain localization trends are reshaping competitive dynamics. Long-term growth will depend on advancements in low-dielectric constant PI formulations and improved process control for sub-10 micron film production.

This report is a detailed and comprehensive analysis for global High Temperature Polyimide (PI) Film 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 (PI) Film market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

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

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

Global High Temperature Polyimide (PI) Film market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), 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 (PI) Film
- 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 (PI) Film 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, Kaneka, UBE Corporation, Toray Industries, SKC, Kolon Industries, Taimide Tech, Rayitek, Wuxi GaoTuo, Jiangsu Yabao Insulation Materials, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

High Temperature Polyimide (PI) Film 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

200? Grade

260? Grade

300? Grade

Market segment by Thickness

Ultra-thin (50?m)

Market segment by Application

Aerospace

Power Electronics

Others

Major players covered

DuPont

Kaneka

UBE Corporation

Toray Industries

SKC

Kolon Industries

Taimide Tech

Rayitek

Wuxi GaoTuo

Jiangsu Yabao Insulation Materials

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 (PI) Film product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the High Temperature Polyimide (PI) Film 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 (PI) Film 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 (PI) Film.

Chapter 14 and 15, to describe High Temperature Polyimide (PI) Film sales channel, distributors, customers, research findings and conclusion.

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