

Thermoplastic Polyimide Market by Form, Product Type (Unfilled, Glass-Filled, Carbon-Filled), Processing Technique, End-use Industry (Electrical & Electronics, Automotive, Aerospace & Defense, Industrial Machinery), and Region - Global Forecast to 2032

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Abstracts

The global thermoplastic polyimide market is projected to grow from USD 0.56 billion in 2026 to USD 0.86 billion by 2032, at a CAGR of 7.4% during the forecast period. The market is driven by increasing demand for lightweight, high-temperature materials in aerospace and defense applications, as well as growing demand across end-use industries including electrical and electronics, automotive, aerospace and defense, industrial machinery, medical, and other industries.

“Electrical & electronics, by end-use industry, is estimated to account for the largest share of the market.”

The electrical & electronics segment is projected to account for the largest share of the thermoplastic polyimide market during the forecast period. This growth is driven by increasing demand for high-performance materials in electronic components, electrical insulation, connectors, sockets, films, wires and cables, and semiconductor manufacturing equipment. These applications require materials that can maintain dimensional stability, electrical performance, and mechanical integrity under elevated temperatures and demanding chemical environments. Thermoplastic polyimide also offers low outgassing and high cleanliness, which support its use in precision electrical and electronic applications.

The increasing complexity and miniaturization of electronic components, along with the expansion of advanced semiconductor manufacturing and electronic equipment, are expected to further support demand for thermoplastic polyimide. Its combination of high-temperature performance, electrical insulation, dimensional stability, and melt processability enables the production of complex, high-precision components. As manufacturers increasingly require materials that maintain reliable performance under demanding operating conditions, the electrical & electronics segment is expected to remain a key application area for thermoplastic polyimide.

“Unfilled thermoplastic polyimide, by product type, is estimated to account for the largest share of the thermoplastic polyimide market.”

The unfilled thermoplastic polyimide segment is projected to account for the largest share of the thermoplastic polyimide market. This dominance is supported by the broad use of unfilled grades in applications where the inherent properties of thermoplastic polyimide are sufficient without adding reinforcing fibers or fillers. Unfilled thermoplastic polyimide provides high-temperature resistance, dimensional stability, chemical resistance, electrical insulation, low outgassing, and cleanliness, supporting its use in precision components, films, tubes, wires and cables, and electrical and electronics applications. The growing demand for high-performance materials in electrical and electronics, automotive, aerospace and defense, and industrial machinery applications is expected to sustain demand for unfilled grades. As manufacturers increasingly require materials that can maintain reliable performance under elevated temperatures and demanding operating conditions, the unfilled segment is expected to retain its leading position throughout the forecast period.

Profile breakdown of primary participants for the report:

By Company Type: Tier 1 – 16%, Tier 2 – 36%, and Tier 3 – 48%

By Designation: C-level – 16%, Director Level – 24%, and Others – 60%

By Region: North America – 36%, Europe – 24%, Asia Pacific – 20%, Middle East & Africa – 12%, and South America – 8%

Mitsui Chemicals (Japan), SABIC (Saudi Arabia), Mitsubishi Gas Chemical Company,

Inc. (Japan), Wanhua Chemical (China), and Kingfa Sci. & Tech. Co., Ltd are some of the major players operating in the thermoplastic polyimide market. These players have adopted strategies such as acquisitions, expansions, partnerships, and agreements to increase their market share and business revenue.

Research Coverage

The report defines, segments, and projects the thermoplastic polyimide market based on form, product type, processing technique, end-use industry, and region. It provides detailed information on the major factors influencing market growth, such as drivers, restraints, opportunities, and challenges. It strategically profiles thermoplastic polyimide manufacturers, analyzes their market shares and core competencies, and tracks and analyzes competitive developments, such as expansions, partnerships, and product launches, undertaken in the market.

Reasons to Buy the Report

The report is expected to help the market leaders/new entrants in the market by providing them with the closest approximations of revenue numbers of the thermoplastic polyimide market and its segments. This report is also expected to help stakeholders obtain an improved understanding of the competitive landscape of the market, gain insights to improve the position of their businesses, and make suitable go-to-market strategies. It also enables stakeholders to understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers

Analysis of key drivers (Increasing Demand for Lightweight, High-Temperature Materials in Aerospace and Defense Applications, Growing Demand from Industrial and Automotive Application), restraints (high production costs and complex processing requirements of thermoplastic polyimides, availability of alternative high-performance engineering polymers), opportunities (increasing electrification of the automotive industry and growing adoption of electric vehicles, expansion of semiconductor manufacturing and advanced electronic packaging), and challenges (limited commercial availability and narrow supplier base) influencing the growth of the thermoplastic polyimide market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities in the thermoplastic polyimide market.

Market Development: Comprehensive information about lucrative markets – the report analyzes the thermoplastic polyimide market across varied regions.

Market Diversification: Exhaustive information about new products, various types, untapped geographies, recent developments, and investments in the thermoplastic polyimide market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players such as Mitsui Chemicals (Japan), Sabic (Saudi Arabia), Solver Polyimide (China), Huntsman (US), Mitsubishi Gas Chemical Company, Inc. (Japan), Jiangsu Junhua HPP Co., Ltd. (China), Changzhou Sunchem New Material Co., Ltd. (China), Wanhua Chemical (China), Arakawa Chemical Industries, Ltd. (Japan), Arkema (France), Evonik (Germany), Allstar Material (China), Jiangsu Qingquan Chemical Co., Ltd. (China), Kingfa Sci. & Tech. Co., Ltd. (China), and others in the thermoplastic polyimide market.

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