

## **Polyimide Films & Tapes - Company Evaluation Report, 2025**

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### **Report description:**

The POLYIMIDE FILMS AND TAPES Companies Quadrant is a comprehensive industry analysis that provides valuable insights into the global market for Polyimide Films and Tapes. This quadrant offers a detailed evaluation of key market players, technological advancements, product innovations, and industry trends. MarketsandMarkets 360 Quadrants evaluated over 112 companies, of which the Top 12 Polyimide Films and Tapes Companies were categorized and recognized as quadrant leaders.

Polyimide films and tapes are high-performance materials derived from polyimide, a polymer renowned for its exceptional thermal stability and dielectric properties. These materials can operate continuously across an incredibly wide temperature range, from as low as -269C to over 260C, without significant degradation of their mechanical or electrical integrity. Available as flexible, thin films or with an adhesive backing as tapes, they offer a unique combination of high tensile strength, chemical resistance, and outstanding electrical insulation in a lightweight format.

The primary market driver for polyimide films is the electronics industry, where they form the substrate for flexible printed circuits (FPCs) found in nearly all modern consumer electronics, including smartphones, tablets, and wearables. Their ability to bend and fold allows for compact, three-dimensional circuit designs. They are also used as high-temperature wire and cable insulation and as masking tapes during the soldering of circuit boards. The relentless trend toward smaller, lighter, and more powerful electronic devices directly fuels the demand for these versatile, high-performance materials.

Despite their superior qualities, the high manufacturing cost of polyimide compared to other polymers like PET is a significant restraint, limiting their use to applications where other materials would fail. The production process is complex and energy intensive. While resistant to most solvents, polyimides can be susceptible to attack by strong bases and can undergo hydrolysis in high-humidity, high-temperature environments, which requires careful consideration during product design. These factors confine its use to critical applications where performance justifies the premium cost.

The 360 Quadrant maps the Polyimide Films and Tapes companies based on criteria such as revenue, geographic presence, growth strategies, investments, and sales strategies for the market presence of the Polyimide Films and Tapes quadrant. The top criteria for product footprint evaluation included Application [Flexible Printed Circuits, Specialty Fabricated Products, Pressure-sensitive Tapes, Wires & Cables, Motors & Generators], End-User Industry [Electronics, Automotive, Aerospace, Labeling, Solar, Other End-use Industries].

### **Key Players:**

Major vendors in the Polyimide Films and Tapes market are PI Advanced Materials Co., Ltd. (South Korea), Kaneka Corporation

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(Japan), DuPont (US), UBE Corporation (Japan), Taimide Tech. Inc. (Taiwan), Kolon Industries, Inc. (South Korea), Arakawa Chemical Industries, Ltd. (Japan), Toray Industries, Inc. (Japan), 3M Company (US), Saint-Gobain (France), Shinmax Technology Ltd. (Taiwan), Nitto Denko Corporation (Japan), Flexcon Company, Inc. (US), Industrial Summit Technology Corporation (Japan), Yunda Electronic Materials Co., Ltd. (China), Mitsubishi Gas Chemical Company Inc. (Japan), and SKC (South Korea).

The key strategies major vendors implement in the Polyimide Films and Tapes market are partnerships, collaborations, product launches, and product enhancements.

Here are the summaries for Kaneka Corporation, DuPont, and UBE Corporation.

#### Kaneka Corporation

Kaneka Corporation is a diversified Japanese chemical manufacturer with a broad portfolio spanning polymers, electronics, food, and healthcare. The company is a key provider of specialty materials like PVC modifiers, high-performance polyimide films, and MS Polymer for advanced sealants. Strategically, Kaneka is positioning itself as a "health-driven company," emphasizing growth in medical devices and pharmaceutical ingredients alongside its material science business. By focusing on high-value solutions for electronics, e-mobility, and healthcare, Kaneka aims to solve societal challenges while strengthening its global market position in specialty technologies.

#### DuPont

DuPont is a global innovation leader, now operating as a premier multi-industrial company with a strategically focused portfolio. Following significant restructuring, the company concentrates on high-growth markets, including electronics, water, and protection. It is renowned for iconic brands like Kevlar and Nomex, alongside essential materials for semiconductor manufacturing and water purification. DuPont's strategy is to leverage its deep science and engineering expertise to drive innovation-led growth in these resilient, high-margin sectors. This sharp focus ensures its vital role in enabling next-generation technology, safety, and sustainability worldwide.

#### UBE Corporation

UBE Corporation is a leading Japanese chemical company with a diverse business portfolio that includes chemicals, performance plastics, and industrial machinery. It is a major global producer of caprolactam, the raw material for nylon, but its strategic focus is shifting decisively towards specialty growth areas. The company's core growth driver is its position as a key supplier of high-performance electrolytes and separators for lithium-ion batteries, making it essential to the e-mobility transition. By prioritizing innovation in battery materials and other advanced solutions, UBE is cementing its role in supporting next-generation industries.

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