

# Global Thermal Release Tape for Semiconductor Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G94C46A1E2B8EN.html>

Date: June 2026

Pages: 133

Price: US\$ 4,480.00 (Single User License)

ID: G94C46A1E2B8EN

## Abstracts

The global Thermal Release Tape for Semiconductor market size is expected to reach \$ 480 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

Thermal release tape for semiconductor applications is a type of functional adhesive tape used for wafer grinding, dicing, packaging, or temporary carrier support. It provides stable adhesion at room temperature; however, upon heating—through mechanisms such as foaming, softening, or interfacial debonding—its adhesive strength is significantly reduced, thereby enabling the low-residue and low-damage release of chips, wafers, or carrier substrates.

The upstream supply chain comprises PET, PO, or PI substrates; acrylic adhesives; expandable microspheres; release liners; antistatic agents; low-ion additives; precision coating equipment; and inspection instruments. The downstream market targets sectors such as wafer back-grinding, wafer dicing, advanced packaging, power semiconductors, MEMS, LEDs, and semiconductor assembly and testing facilities.

Globally, the average unit price for semiconductor thermal release tape stands at approximately \$16 per square meter, with global sales volume reaching approximately 20.7 million square meters. The industry's annual production capacity ranges between 30 and 40 million square meters, and the sector maintains a profit margin of approximately 25%.

Global demand for semiconductor thermal release tape is projected to rise in tandem with the expansion of production capacities in advanced packaging, wafer thinning, Chiplet technology, power devices, Mini/Micro LEDs, and high-end assembly and testing. Future product development will trend toward lower adhesive residue, reduced

ionic contamination, more stable release temperatures, higher levels of cleanliness, and enhanced dimensional stability. Concurrently, given the lengthy customer qualification cycles and deep process integration characteristic of the industry, Japanese and other leading material manufacturers are expected to retain their competitive edge; however, Chinese manufacturers are poised to accelerate their market penetration within the contexts of domestic substitution, mature-process packaging, and power semiconductor applications.

This report studies the global Thermal Release Tape for Semiconductor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thermal Release Tape for Semiconductor 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 Thermal Release Tape for Semiconductor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thermal Release Tape for Semiconductor total production and demand, 2021-2032, (K Sqm)

Global Thermal Release Tape for Semiconductor total production value, 2021-2032, (USD Million)

Global Thermal Release Tape for Semiconductor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Thermal Release Tape for Semiconductor consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Thermal Release Tape for Semiconductor domestic production, consumption, key domestic manufacturers and share

Global Thermal Release Tape for Semiconductor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Thermal Release Tape for Semiconductor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Thermal Release Tape for Semiconductor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Thermal Release Tape for Semiconductor 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 Nitto Denko Corporation, Mitsui Chemicals ICT Materia, Nitta, LINTEC Corporation, Furukawa Electric, Denka, Maxell, SEKISUI CHEMICAL, Sumitomo Bakelite, 3M Company, 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 Thermal Release Tape for Semiconductor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) 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 Thermal Release Tape for Semiconductor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermal Release Tape for Semiconductor Market, Segmentation by Type:

Thermal Foaming Release Type

Thermal Softening & Tack-Reducing Type

Thermal Interface De-bonding Type

Global Thermal Release Tape for Semiconductor Market, Segmentation by Release Temperature:

Low-Temperature Release Type

Medium-Temperature Release Type

High-Temperature Release Type

Global Thermal Release Tape for Semiconductor Market, Segmentation by Substrate:

PET Substrate Type

PI Substrate Type

PVC/PO Substrate Type

Substrate-Free Adhesive Film Type

Global Thermal Release Tape for Semiconductor Market, Segmentation by Application:

Back Grinding

Dicing

Others

Companies Profiled:

Nitto Denko Corporation

Mitsui Chemicals ICT Materia

Nitta

LINTEC Corporation

Furukawa Electric

Denka

Maxell

SEKISUI CHEMICAL

Sumitomo Bakelite

3M Company

Tesa

Lohmann

CROWN New Materials Technology

Shenzhen KHJ Technology

Force-One Applied Materials

#### Key Questions Answered:

1. How big is the global Thermal Release Tape for Semiconductor market?
2. What is the demand of the global Thermal Release Tape for Semiconductor market?
3. What is the year over year growth of the global Thermal Release Tape for Semiconductor market?
4. What is the production and production value of the global Thermal Release Tape for Semiconductor market?
5. Who are the key producers in the global Thermal Release Tape for Semiconductor

market?

6. What are the growth factors driving the market demand?

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