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Global Thermally Conductive Insulating Sheet for Packaging Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thermally Conductive Insulating Sheet for Packaging market size is expected to reach $ 1116 million by 2032, rising at a market growth of 9.8% CAGR during the forecast period (2026-2032).

Thermally Conductive Insulating Sheets for Packaging are sheet-type thermal interface materials used between power devices, IC packages, module housings, and heat sinks. They are typically manufactured by incorporating electrically insulating and thermally conductive fillers such as aluminum oxide, boron nitride, or aluminum nitride into silicone rubber, acrylic, or thermosetting resin matrices. Glass fiber fabrics or polyimide films may also be added to enhance dielectric strength, puncture resistance, and assembly stability. The overall gross margin is approximately 43%.

Demand for thermally conductive insulating sheets is primarily driven by the transition of high-power-density electronic packaging toward automotive-grade, high-frequency, and miniaturized applications. Electric vehicle inverters, onboard chargers, server power supplies, communication base stations, and industrial power systems all require effective thermal management and electrical isolation within limited space. Compared with thermal grease and conventional thermal pads, thin high-dielectric-strength sheets are easier to standardize for automated assembly and mass production.

Market competition is shifting from a focus on thermal conductivity alone toward a comprehensive balance of low thermal resistance, dielectric strength, low stress, and long-term reliability. High-end products increasingly emphasize the orientation control and high-loading processing of electrically insulating fillers such as boron nitride and aluminum nitride. Reinforced structures incorporating glass fiber fabrics or polyimide

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films also continue to maintain stable demand in power modules and high-voltage power supply applications.

This report studies the global Thermally Conductive Insulating Sheet for Packaging production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thermally Conductive Insulating Sheet for Packaging 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 Thermally Conductive Insulating Sheet for Packaging that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Thermally Conductive Insulating Sheet for Packaging total production and demand, 2021-2032, (K Pcs)
Global Thermally Conductive Insulating Sheet for Packaging total production value, 2021-2032, (USD Million)
Global Thermally Conductive Insulating Sheet for Packaging production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)
Global Thermally Conductive Insulating Sheet for Packaging consumption by region & country, CAGR, 2021-2032 & (K Pcs)
U.S. VS China: Thermally Conductive Insulating Sheet for Packaging domestic production, consumption, key domestic manufacturers and share
Global Thermally Conductive Insulating Sheet for Packaging production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)
Global Thermally Conductive Insulating Sheet for Packaging production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)
Global Thermally Conductive Insulating Sheet for Packaging production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Thermally Conductive Insulating Sheet for Packaging 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, Denka, Sumitomo Bakelite, Furukawa Electric, Dexerials, Shin-Etsu, Henkel, Parker Chomerics, 3M, Fujipoly, etc.

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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 Thermally Conductive Insulating Sheet for Packaging market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Pcs) and average price (US$/Pc) 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 Thermally Conductive Insulating Sheet for Packaging Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermally Conductive Insulating Sheet for Packaging Market, Segmentation by Type:

Silicone Matrix Sheet

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Acrylic Matrix Sheet

Polyester Matrix Sheet

Thermoset Resin Matrix Sheet

Non-Silicone Polymer Matrix Sheet

Ceramic Matrix Sheet

Global Thermally Conductive Insulating Sheet for Packaging Market, Segmentation by Thermal Conductivity:

Below 1.5 W/m?K

1.5-3.0 W/m?K

3.0-6.0 W/m?K

6.0-10.0 W/m?K

Above 10.0 W/m?K

Global Thermally Conductive Insulating Sheet for Packaging Market, Segmentation by Insulating Carrier Structure:

Glass Fabric Carrier

Polyimide Film Carrier

Ceramic Substrate Carrier

Carrier-Free Soft Elastomer

Multilayer Composite Carrier

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Global Thermally Conductive Insulating Sheet for Packaging Market, Segmentation by Adhesive Configuration:

- Non-Adhesive Sheet
- Single-Sided Adhesive Sheet
- Double-Sided Adhesive Sheet
- Low-Tack Handling Sheet
- Custom Laminated Sheet

Global Thermally Conductive Insulating Sheet for Packaging Market, Segmentation by Application:

- Power Semiconductor Modules
- Automotive Electronics
- Data Center and Communication Equipment
- Power Supply and Conversion
- Consumer Electronics
- Industrial Control and Automation

Companies Profiled:

- Nitto
- Denka
- Sumitomo Bakelite
- Furukawa Electric

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Dexerials

Shin-Etsu

Henkel

Parker Chomerics

3M

Fujipoly

Techinno

AOK

Key Questions Answered:
1. How big is the global Thermally Conductive Insulating Sheet for Packaging market?
2. What is the demand of the global Thermally Conductive Insulating Sheet for Packaging market?
3. What is the year over year growth of the global Thermally Conductive Insulating Sheet for Packaging market?
4. What is the production and production value of the global Thermally Conductive Insulating Sheet for Packaging market?
5. Who are the key producers in the global Thermally Conductive Insulating Sheet for Packaging market?
6. What are the growth factors driving the market demand?

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