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Global Thermally Conductive Insulating Sheet for Packaging Market Growth 2026-2032

https://marketpublishers.com/r/GD4F2844DAAAEN.html
Date: July 2026
Pages: 119
Price: US$ 3,660.00 (Single User License)
ID: GD4F2844DAAAEN

Abstracts

The global Thermally Conductive Insulating Sheet for Packaging market size is predicted to grow from US$ 550 million in 2025 to US$ 1097 million in 2032; it is expected to grow at a CAGR of 10.4% from 2026 to 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 films also continue to maintain stable demand in power modules and high-voltage

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power supply applications.

LP Information, Inc. (LPI) ' newest research report, the ?Thermally Conductive Insulating Sheet for Packaging Industry Forecast? looks at past sales and reviews total world Thermally Conductive Insulating Sheet for Packaging sales in 2025, providing a comprehensive analysis by region and market sector of projected Thermally Conductive Insulating Sheet for Packaging sales for 2026 through 2032. With Thermally Conductive Insulating Sheet for Packaging sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Thermally Conductive Insulating Sheet for Packaging industry.

This Insight Report provides a comprehensive analysis of the global Thermally Conductive Insulating Sheet for Packaging landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Thermally Conductive Insulating Sheet for Packaging portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Thermally Conductive Insulating Sheet for Packaging market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thermally Conductive Insulating Sheet for Packaging and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Thermally Conductive Insulating Sheet for Packaging.

This report presents a comprehensive overview, market shares, and growth opportunities of Thermally Conductive Insulating Sheet for Packaging market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Silicone Matrix Sheet

Acrylic Matrix Sheet

Polyester Matrix Sheet

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Thermoset Resin Matrix Sheet

Non-Silicone Polymer Matrix Sheet

Ceramic Matrix Sheet

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

Segmentation by Insulating Carrier Structure:

Glass Fabric Carrier

Polyimide Film Carrier

Ceramic Substrate Carrier

Carrier-Free Soft Elastomer

Multilayer Composite Carrier

Segmentation by Adhesive Configuration:

Non-Adhesive Sheet

Single-Sided Adhesive Sheet

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

Segmentation by Application:

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

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China

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- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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Nitto

Denka

Sumitomo Bakelite

Furukawa Electric

Dexerials

Shin-Etsu

Henkel

Parker Chomerics

3M

Fujipoly

Techinno

AOK

Key Questions Addressed in this Report
What is the 10-year outlook for the global Thermally Conductive Insulating Sheet for Packaging market?
What factors are driving Thermally Conductive Insulating Sheet for Packaging market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Thermally Conductive Insulating Sheet for Packaging market opportunities vary by end market size?
How does Thermally Conductive Insulating Sheet for Packaging break out by Type, by Application?

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Contents

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3 GLOBAL BY COMPANY

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4 WORLD HISTORIC REVIEW FOR THERMALLY CONDUCTIVE INSULATING SHEET FOR PACKAGING BY GEOGRAPHIC REGION

5 AMERICAS

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14 RESEARCH FINDINGS AND CONCLUSION

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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