

Global Graphene Heat Dissipation Film Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Graphene Heat Dissipation Film market size is expected to reach \$ 2252 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

In 2025, global graphene heat dissipation film production capacity is approximately 220 million square meters, with actual output around 160 million square meters. The average selling price is about US\$8 per square meter for consumer electronics grade materials, while automotive and high-power industrial grades are priced higher. Industry gross margins typically range from 25% to 40%, depending on raw material cost, film thickness, thermal conductivity level, and downstream application concentration. Graphene heat dissipation film is a high thermal conductivity material made by assembling graphene sheets or graphene-based composites into thin-film structures. It is primarily used for in-plane heat spreading in compact electronic devices. In practical commercial films, the effective in-plane thermal conductivity typically ranges between 800–1800 W/(m·K), depending on manufacturing process and structural integrity. Compared with traditional graphite sheets, graphene-based films offer thinner profiles, lighter weight, higher mechanical flexibility, and improved thermal spreading efficiency, making them suitable for high-density electronic packaging.

Upstream includes graphene powder production (chemical vapor deposition or chemical exfoliation), high-purity graphite raw materials, polymer binders, and functional additives. Midstream involves film forming processes such as coating, rolling, lamination, high-temperature graphitization, and surface treatment. Downstream applications cover smartphones, tablets, laptops, wearable devices, power batteries, automotive electronics, LED lighting, and 5G communication modules. The industry is evolving from simple heat spreading materials toward integrated thermal management

solutions combined with vapor chambers and composite interface materials.

The graphene heat dissipation film market is expanding rapidly, driven by increasing power density and miniaturization in consumer electronics and automotive electronics. As processors, AI chips, and 5G modules generate higher thermal loads within limited space, efficient in-plane heat spreading becomes critical. The electrification of vehicles and the growth of battery management systems further increase demand for lightweight, high-performance thermal materials. Compared with traditional artificial graphite sheets, graphene-based films offer performance advantages but face cost competitiveness challenges. Technological differentiation lies in achieving higher thermal conductivity with thinner thickness and improved flexibility. In the long term, large-scale process optimization and yield improvement will determine cost reduction potential. Overall, the market is characterized by strong growth momentum, rapid technological iteration, and increasing integration into advanced electronic thermal management architectures.

This report studies the global Graphene Heat Dissipation Film production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Graphene Heat Dissipation Film 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 Graphene Heat Dissipation Film that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Graphene Heat Dissipation Film total production and demand, 2021-2032, (K Sqm)

Global Graphene Heat Dissipation Film total production value, 2021-2032, (USD Million)

Global Graphene Heat Dissipation Film production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Graphene Heat Dissipation Film consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Graphene Heat Dissipation Film domestic production, consumption, key domestic manufacturers and share

Global Graphene Heat Dissipation Film production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Graphene Heat Dissipation Film production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Graphene Heat Dissipation Film production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Graphene Heat Dissipation Film 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 Radiant Panel Technology, Sono-Tek, Morion NanoTech, StonePlus Thermal Management Technologies, Daoming Optices&Chemical Co.,Ltd, LEVSON, Hangzhou Gaoxi Technology Co., Ltd., Wuhan Hanene Technology, CASYUEDA, Shenzhen Xidao, 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 Graphene Heat Dissipation Film market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sqm) 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 Graphene Heat Dissipation Film Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Graphene Heat Dissipation Film Market, Segmentation by Type:

Single-layer

Multi-layer

Global Graphene Heat Dissipation Film Market, Segmentation by Thickness:

Ultra-thin (100?m)

Global Graphene Heat Dissipation Film Market, Segmentation by Manufacturing Process:

CVD

Liquid-phase Exfoliation

Tape-exfoliated

Global Graphene Heat Dissipation Film Market, Segmentation by Application:

Mobilephone

Tablet

Laptop

Others

Companies Profiled:

Radiant Panel Technology

Sono-Tek

Morion NanoTech

StonePlus Thermal Management Technologies

Daoming Optices&Chemical Co.,Ltd

LEVSON

Hangzhou Gaoxi Technology Co., Ltd.

Wuhan Hanene Technology

CASYUEDA

Shenzhen Xidao

Tanyuan Technology

Jiangsu Sidike New Materials Science & Technology

Key Questions Answered:

1. How big is the global Graphene Heat Dissipation Film market?
2. What is the demand of the global Graphene Heat Dissipation Film market?
3. What is the year over year growth of the global Graphene Heat Dissipation Film market?
4. What is the production and production value of the global Graphene Heat Dissipation

Film market?

5. Who are the key producers in the global Graphene Heat Dissipation Film market?

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

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