

Global Graphite Thermal Film Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Graphite Thermal Film market size is expected to reach \$ 5239 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

Graphite Heat Dissipation Films are thin-film thermal management materials manufactured from natural graphite, PI-derived graphitized films, or graphene/composite carbon materials. Utilizing extremely high in-plane thermal conductivity, they rapidly spread heat from localized sources such as chips, batteries, and display modules into a broader area, thereby improving heat dissipation efficiency. These films can be combined with adhesive layers, insulating films, copper foils, or die-cut structures and are widely used in consumer electronics, communication equipment, automotive electronics, data infrastructure, and power electronics thermal management applications. The overall gross margin is approximately 35%.

Demand for graphite heat dissipation films is primarily driven by increasing power consumption and shrinking internal space within electronic devices. Smartphones, tablets, laptops, wearable devices, and AR/VR products require thinner, lighter, and die-cutable heat-spreading materials to reduce localized temperature rise around processors, displays, camera modules, wireless charging systems, and batteries. The continued expansion of 5G communications, AI-enabled devices, and high-refresh-rate displays is increasing thermal density, driving the development of synthetic graphite films, composite graphite films, and graphene thermal films with higher thermal conductivity, improved flexibility, and more stable bonding performance.

Long-term growth opportunities are expected to come from automotive electronics, power batteries, communication base stations, servers, and industrial power electronics. In traditional consumer electronics, graphite film products have become increasingly

competitive, putting pressure on the profitability of standard single-layer films. However, premium opportunities remain in thick-film products, multilayer composite structures, foldable-display applications requiring high bending durability, graphene-based thermal films, and integrated thermal management solutions combining graphite films with vapor chambers (VCs), heat pipes, and thermal interface materials (TIMs). Upstream factors such as PI film quality, graphitization equipment, roll-to-roll manufacturing processes, and die-cutting yield significantly influence production costs. Leading manufacturers are expected to continue transitioning from standalone film suppliers toward integrated providers of thermal management materials and heat dissipation structural solutions.

This report studies the global Graphite Thermal Film production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Graphite Thermal Film total production and demand, 2021-2032, (Sq m)

Global Graphite Thermal Film total production value, 2021-2032, (USD Million)

Global Graphite Thermal Film production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Sq m), (based on production site)

Global Graphite Thermal Film consumption by region & country, CAGR, 2021-2032 & (Sq m)

U.S. VS China: Graphite Thermal Film domestic production, consumption, key domestic manufacturers and share

Global Graphite Thermal Film production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Sq m)

Global Graphite Thermal Film production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

Global Graphite Thermal Film production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

This report profiles key players in the global Graphite Thermal 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 Panasonic Industry, Kaneka, NeoGraf, Jones Tech, Tanyuan Technology, Shenzhen FRD Science & Technology, Guangdong Suqun New Material, Shenzhen Istoneplus Thermal Management, T-Global Technology, Laird Performance Materials, 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 Graphite Thermal Film market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Sq m) 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 Graphite Thermal Film Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Graphite Thermal Film Market, Segmentation by Type:

Synthetic Graphite Film

Natural Graphite Film

Graphene Thermal Film

Composite Graphite Film

Other Graphite Thermal Film

Global Graphite Thermal Film Market, Segmentation by Thickness:

Ultra-Thin Below 25 μm

Thin 25-50 μm

Medium 50-100 μm

Thick Above 100 μm

Other Thickness

Global Graphite Thermal Film Market, Segmentation by In-Plane Thermal Conductivity:

Standard Conductivity Below 800 W/m²K

High Conductivity 800-1500 W/m²K

Ultra-High Conductivity Above 1500 W/m²K

Other Conductivity

Global Graphite Thermal Film Market, Segmentation by Product Structure:

Bare Graphite Film

Adhesive-Backed Graphite Film

Insulation-Laminated Graphite Film

Metal-Foil Composite Graphite Film

Die-Cut Graphite Part

Global Graphite Thermal Film Market, Segmentation by Application:

Mobile Devices

PCs and Wearables

Telecommunications and Data Infrastructure

Automotive Electronics and Batteries

Power Electronics and Industrial Equipment

Display and Lighting

Companies Profiled:

Panasonic Industry

Kaneka

NeoGraf

Jones Tech

Tanyuan Technology

Shenzhen FRD Science & Technology

Guangdong Suqun New Material

Shenzhen Istoneplus Thermal Management

T-Global Technology

Laird Performance Materials

Parker Chomerics

Daoming Optics & Chemical

BTR New Material Group

Key Questions Answered:

1. How big is the global Graphite Thermal Film market?
2. What is the demand of the global Graphite Thermal Film market?
3. What is the year over year growth of the global Graphite Thermal Film market?
4. What is the production and production value of the global Graphite Thermal Film market?
5. Who are the key producers in the global Graphite Thermal Film market?
6. What are the growth factors driving the market demand?

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