

Global Graphite Thermal Film Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Graphite Thermal Film market size was valued at US\$ 2881 million in 2025 and is forecast to a readjusted size of US\$ 5239 million by 2032 with a CAGR of 8.9% during review period.

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-cuttable 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 is a detailed and comprehensive analysis for global Graphite Thermal Film market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Graphite Thermal Film market size and forecasts, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Graphite Thermal Film market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Graphite Thermal Film market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Graphite Thermal Film market shares of main players, shipments in revenue (\$ Million), sales quantity (Sq m), and ASP (US\$/Sq m), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Graphite Thermal Film

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Graphite Thermal Film market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Graphite Thermal Film market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Synthetic Graphite Film

Natural Graphite Film

Graphene Thermal Film

Composite Graphite Film

Other Graphite Thermal Film

Market segment by Thickness

Ultra-Thin Below 25 μ m

Thin 25-50 μ m

Medium 50-100 μ m

Thick Above 100 μ m

Other Thickness

Market segment 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

Market segment by Product Structure

Bare Graphite Film

Adhesive-Backed Graphite Film

Insulation-Laminated Graphite Film

Metal-Foil Composite Graphite Film

Die-Cut Graphite Part

Market segment by Application

Mobile Devices

PCs and Wearables

Telecommunications and Data Infrastructure

Automotive Electronics and Batteries

Power Electronics and Industrial Equipment

Display and Lighting

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Graphite Thermal Film product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Graphite Thermal Film, with price, sales quantity, revenue, and global market share of Graphite Thermal Film from 2021 to 2026.

Chapter 3, the Graphite Thermal Film competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Graphite Thermal Film breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the

world, from 2021 to 2026.and Graphite Thermal Film market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Graphite Thermal Film.

Chapter 14 and 15, to describe Graphite Thermal Film sales channel, distributors, customers, research findings and conclusion.

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