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Global Thermal Graphite Films for Display Modules Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G60E417A192DEN.html
Date: August 2026
Pages: 141
Price: US$ 4,480.00 (Single User License)
ID: G60E417A192DEN

Abstracts

The global Thermal Graphite Films for Display Modules market size is expected to reach $ 381 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

Thermal graphite films for display modules are thin graphite based heat spreading film materials used inside or on the back side of OLED, AMOLED, LCD, Mini LED backlight and other display module structures. They belong to functional film materials in the electronics and semiconductor industry. The product family mainly covers synthetic graphite films, pyrolytic graphite films, flexible natural graphite films, composite graphite heat spreading films and adhesive backed die cut graphite heat spreading parts. These materials are commonly produced through polyimide film carbonization, graphitization, rolling, lamination, adhesive coating, precision die cutting and module level attachment. Key specifications include thickness, in plane thermal conductivity, thermal diffusivity, bending reliability, thickness tolerance, electrical insulation performance, adhesive bonding strength, heat resistance and dimensional stability. Their core function is to spread local heat laterally within a very limited thickness space, especially around display driver integrated circuits, COF areas, TCON areas, backlight sources, high brightness display zones and foldable display hinge or bending structures. By reducing local temperature rise, these films help improve brightness stability, display lifetime, touch reliability, module level thermal balance and the thin and light design capability of finished electronic devices. Major applications include smartphone display modules, foldable display modules, tablet display modules, notebook display modules, automotive displays, industrial control displays, medical displays, gaming monitors and high brightness large size display modules. In 2025, the global average industry price of thermal graphite films for display modules was about 31 US dollars per square meter, and global production was about 8.04 million square meters.

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Thermal graphite films for display modules are becoming a more defined functional material category as display modules move toward higher brightness, thinner structures, higher refresh rates and more integrated driver electronics. The upstream chain mainly includes polyimide films, graphite and carbon materials, adhesive systems, release films and other lamination materials. The midstream chain covers carbonization, graphitization, rolling, lamination, adhesive coating, precision die cutting and reliability testing. The downstream chain is concentrated in smartphone displays, foldable displays, tablets, notebooks, automotive displays, industrial displays, medical displays and high brightness monitor modules. This product is different from general thermal interface pads because its value lies in thin profile design, lateral heat spreading, stable dimensional control and display module compatibility. It is therefore closer to a display electronic functional film than to a broad thermal management material.

The competitive landscape is shaped by suppliers from Japan, the United States, mainland China and Taiwan. Overseas suppliers generally retain advantages in high end pyrolytic graphite, flexible graphite processing, material consistency and long qualification history. Mainland Chinese suppliers are stronger in consumer electronics supply chain access, fast customization, die cutting, lamination and integrated thermal component delivery. Taiwan based suppliers also play an important role in thermal interface materials and display related electronic applications. Recent industry investment has focused less on large scale mergers and more on capacity expansion, automated converting lines, high conductivity synthetic graphite films, ultra thin composite structures and customer qualification capabilities. Regional supply chain migration is also influencing the market, as display module and consumer electronics assembly capacity continues to diversify across China and nearby Asian manufacturing hubs.

Demand growth is increasingly driven by display architecture upgrades rather than by simple terminal shipment growth. Foldable OLED displays, OLED IT products, Mini LED backlights, high brightness automotive screens and gaming monitors all create more demanding local heat control requirements. This supports the gradual movement of graphite films from general device back side heat spreading toward display module interiors, driver IC areas, COF zones and backlight related structures. The policy environment is broadly supportive because energy efficient displays, lighter electronic devices, smart vehicle cabins, local material substitution and supply chain security all favor advanced functional materials. The market will still face pressure from price decline, standardization and competing solutions such as vapor chambers, ultra thin heat pipes, copper foils, boron nitride films and thermal gels. Even so, suppliers with

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high conductivity film capability, ultra thin processing, flexible structure design, multilayer lamination and stable display module certification are likely to remain better positioned.

This report studies the global Thermal Graphite Films for Display Modules production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Thermal Graphite Films for Display Modules total production and demand, 2021-2032, (K Sqm)
Global Thermal Graphite Films for Display Modules total production value, 2021-2032, (USD Million)
Global Thermal Graphite Films for Display Modules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)
Global Thermal Graphite Films for Display Modules consumption by region & country, CAGR, 2021-2032 & (K Sqm)
U.S. VS China: Thermal Graphite Films for Display Modules domestic production, consumption, key domestic manufacturers and share
Global Thermal Graphite Films for Display Modules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)
Global Thermal Graphite Films for Display Modules production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)
Global Thermal Graphite Films for Display Modules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Thermal Graphite Films for Display Modules 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 Co., Ltd., NeoGraf Solutions, LLC, Kaneka Corporation, Jones Tech PLC,

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Shenzhen FRD Science & Technology Co., Ltd., Tanyuan Technology Co., Ltd., Guangdong Suqun New Material Co., Ltd., Shenzhen iStoneplus Thermal Management Technology Co., Ltd., T-Global Technology Co., Ltd., LiPOLY TIMs Technology, 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 Thermal Graphite Films for Display Modules market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Sqm) 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 Thermal Graphite Films for Display Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermal Graphite Films for Display Modules Market, Segmentation by Type:

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Roll Film

Sheet Film

Die cut Graphite Film

Others

Global Thermal Graphite Films for Display Modules Market, Segmentation by Thickness:

Ultra thin Graphite Film below 20 ?m

Thin Graphite Film 20 to 40 ?m

Standard Graphite Film above 40 to 80 ?m

Thick Graphite Film above 80 ?m

Others

Global Thermal Graphite Films for Display Modules Market, Segmentation by Thermal Conductivity:

Standard Conductivity Graphite Film below 700 W per mK

High Conductivity Graphite Film 700 to 1300 W per mK

Ultra high Conductivity Graphite Film above 1300 W per mK

Others

Global Thermal Graphite Films for Display Modules Market, Segmentation by Application:

Consumer Display Devices

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Automotive Electronics

Industrial and Professional Equipment

Others

Companies Profiled:

Panasonic Industry Co., Ltd.

NeoGraf Solutions, LLC

Kaneka Corporation

Jones Tech PLC

Shenzhen FRD Science & Technology Co., Ltd.

Tanyuan Technology Co., Ltd.

Guangdong Suqun New Material Co., Ltd.

Shenzhen iStoneplus Thermal Management Technology Co., Ltd.

T-Global Technology Co., Ltd.

LiPOLY TIMs Technology

SGL Carbon SE

Toyo Tanso Co., Ltd.

Kitagawa Industries Co., Ltd.

MORTECH Corporation

Shenzhen Beichuan Lihe Technology Co., Ltd.

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Guangzhou Hongqing Electronics Co., Ltd.

Key Questions Answered:
1. How big is the global Thermal Graphite Films for Display Modules market?
2. What is the demand of the global Thermal Graphite Films for Display Modules market?
3. What is the year over year growth of the global Thermal Graphite Films for Display Modules market?
4. What is the production and production value of the global Thermal Graphite Films for Display Modules market?
5. Who are the key producers in the global Thermal Graphite Films for Display Modules market?
6. What are the growth factors driving the market demand?

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