

Global Graphite Thermal Film Market Growth 2026-2032

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Abstracts

The global Graphite Thermal Film market size is predicted to grow from US\$ 2739 million in 2025 to US\$ 5135 million in 2032; it is expected to grow at a CAGR of 9.4% from 2026 to 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.

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

This Insight Report provides a comprehensive analysis of the global Graphite Thermal Film 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 Graphite Thermal Film portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Graphite Thermal Film market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Graphite Thermal Film 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 Graphite Thermal Film.

This report presents a comprehensive overview, market shares, and growth opportunities of Graphite Thermal Film market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Synthetic Graphite Film

Natural Graphite Film

Graphene Thermal Film

Composite Graphite Film

Other Graphite Thermal Film

Segmentation 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

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

Segmentation by Product Structure:

Bare Graphite Film

Adhesive-Backed Graphite Film

Insulation-Laminated Graphite Film

Metal-Foil Composite Graphite Film

Die-Cut Graphite Part

Segmentation by Application:

Mobile Devices

PCs and Wearables

Telecommunications and Data Infrastructure

Automotive Electronics and Batteries

Power Electronics and Industrial Equipment

Display and Lighting

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

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.

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 Addressed in this Report

What is the 10-year outlook for the global Graphite Thermal Film market?

What factors are driving Graphite Thermal Film market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Graphite Thermal Film market opportunities vary by end market size?

How does Graphite Thermal Film break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Graphite Thermal Film Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Graphite Thermal Film by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Graphite Thermal Film by Country/Region, 2021, 2025 & 2032
- 2.2 Graphite Thermal Film Segment by Type
 - 2.2.1 Synthetic Graphite Film
 - 2.2.2 Natural Graphite Film
 - 2.2.3 Graphene Thermal Film
 - 2.2.4 Composite Graphite Film
 - 2.2.5 Other Graphite Thermal Film
 - 2.2.6 Graphite Thermal Film Sales by Type
 - 2.2.6.1 Global Graphite Thermal Film Sales Market Share by Type (2021-2026)
 - 2.2.6.2 Global Graphite Thermal Film Revenue and Market Share by Type (2021-2026)
 - 2.2.6.3 Global Graphite Thermal Film Sale Price by Type (2021-2026)
- 2.3 Graphite Thermal Film Segment by Thickness
 - 2.3.1 Ultra-Thin Below 25 ?m
 - 2.3.2 Thin 25-50 ?m
 - 2.3.3 Medium 50-100 ?m
 - 2.3.4 Thick Above 100 ?m
 - 2.3.5 Other Thickness
 - 2.3.6 Graphite Thermal Film Sales by Thickness

- 2.3.6.1 Global Graphite Thermal Film Sales Market Share by Thickness (2021-2026)
- 2.3.6.2 Global Graphite Thermal Film Revenue and Market Share by Thickness (2021-2026)
- 2.3.6.3 Global Graphite Thermal Film Sale Price by Thickness (2021-2026)
- 2.4 Graphite Thermal Film Segment by In-Plane Thermal Conductivity
 - 2.4.1 Standard Conductivity Below 800 W/m²K
 - 2.4.2 High Conductivity 800-1500 W/m²K
 - 2.4.3 Ultra-High Conductivity Above 1500 W/m²K
 - 2.4.4 Other Conductivity
 - 2.4.5 Graphite Thermal Film Sales by In-Plane Thermal Conductivity
 - 2.4.5.1 Global Graphite Thermal Film Sales Market Share by In-Plane Thermal Conductivity (2021-2026)
 - 2.4.5.2 Global Graphite Thermal Film Revenue and Market Share by In-Plane Thermal Conductivity (2021-2026)
 - 2.4.5.3 Global Graphite Thermal Film Sale Price by In-Plane Thermal Conductivity (2021-2026)
- 2.5 Graphite Thermal Film Segment by Product Structure
 - 2.5.1 Bare Graphite Film
 - 2.5.2 Adhesive-Backed Graphite Film
 - 2.5.3 Insulation-Laminated Graphite Film
 - 2.5.4 Metal-Foil Composite Graphite Film
 - 2.5.5 Die-Cut Graphite Part
 - 2.5.6 Graphite Thermal Film Sales by Product Structure
 - 2.5.6.1 Global Graphite Thermal Film Sales Market Share by Product Structure (2021-2026)
 - 2.5.6.2 Global Graphite Thermal Film Revenue and Market Share by Product Structure (2021-2026)
 - 2.5.6.3 Global Graphite Thermal Film Sale Price by Product Structure (2021-2026)
- 2.6 Graphite Thermal Film Segment by Application
 - 2.6.1 Mobile Devices
 - 2.6.2 PCs and Wearables
 - 2.6.3 Telecommunications and Data Infrastructure
 - 2.6.4 Automotive Electronics and Batteries
 - 2.6.5 Power Electronics and Industrial Equipment
 - 2.6.6 Display and Lighting
 - 2.6.7 Graphite Thermal Film Sales by Application
 - 2.6.7.1 Global Graphite Thermal Film Sale Market Share by Application (2021-2026)
 - 2.6.7.2 Global Graphite Thermal Film Revenue and Market Share by Application (2021-2026)

2.6.7.3 Global Graphite Thermal Film Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Graphite Thermal Film Breakdown Data by Company

3.1.1 Global Graphite Thermal Film Annual Sales by Company (2021-2026)

3.1.2 Global Graphite Thermal Film Sales Market Share by Company (2021-2026)

3.2 Global Graphite Thermal Film Annual Revenue by Company (2021-2026)

3.2.1 Global Graphite Thermal Film Revenue by Company (2021-2026)

3.2.2 Global Graphite Thermal Film Revenue Market Share by Company (2021-2026)

3.3 Global Graphite Thermal Film Sale Price by Company

3.4 Key Manufacturers Graphite Thermal Film Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Graphite Thermal Film Product Location Distribution

3.4.2 Players Graphite Thermal Film Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR GRAPHITE THERMAL FILM BY GEOGRAPHIC REGION

4.1 World Historic Graphite Thermal Film Market Size by Geographic Region (2021-2026)

4.1.1 Global Graphite Thermal Film Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Graphite Thermal Film Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Graphite Thermal Film Market Size by Country/Region (2021-2026)

4.2.1 Global Graphite Thermal Film Annual Sales by Country/Region (2021-2026)

4.2.2 Global Graphite Thermal Film Annual Revenue by Country/Region (2021-2026)

4.3 Americas Graphite Thermal Film Sales Growth

4.4 APAC Graphite Thermal Film Sales Growth

4.5 Europe Graphite Thermal Film Sales Growth

4.6 Middle East & Africa Graphite Thermal Film Sales Growth

5 AMERICAS

5.1 Americas Graphite Thermal Film Sales by Country

5.1.1 Americas Graphite Thermal Film Sales by Country (2021-2026)

5.1.2 Americas Graphite Thermal Film Revenue by Country (2021-2026)

5.2 Americas Graphite Thermal Film Sales by Type (2021-2026)

5.3 Americas Graphite Thermal Film Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Graphite Thermal Film Sales by Region

6.1.1 APAC Graphite Thermal Film Sales by Region (2021-2026)

6.1.2 APAC Graphite Thermal Film Revenue by Region (2021-2026)

6.2 APAC Graphite Thermal Film Sales by Type (2021-2026)

6.3 APAC Graphite Thermal Film Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Graphite Thermal Film by Country

7.1.1 Europe Graphite Thermal Film Sales by Country (2021-2026)

7.1.2 Europe Graphite Thermal Film Revenue by Country (2021-2026)

7.2 Europe Graphite Thermal Film Sales by Type (2021-2026)

7.3 Europe Graphite Thermal Film Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Graphite Thermal Film by Country

8.1.1 Middle East & Africa Graphite Thermal Film Sales by Country (2021-2026)

8.1.2 Middle East & Africa Graphite Thermal Film Revenue by Country (2021-2026)

8.2 Middle East & Africa Graphite Thermal Film Sales by Type (2021-2026)

8.3 Middle East & Africa Graphite Thermal Film Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Graphite Thermal Film

10.3 Manufacturing Process Analysis of Graphite Thermal Film

10.4 Industry Chain Structure of Graphite Thermal Film

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Graphite Thermal Film Distributors

11.3 Graphite Thermal Film Customer

12 WORLD FORECAST REVIEW FOR GRAPHITE THERMAL FILM BY GEOGRAPHIC REGION

12.1 Global Graphite Thermal Film Market Size Forecast by Region

12.1.1 Global Graphite Thermal Film Forecast by Region (2027-2032)

12.1.2 Global Graphite Thermal Film Annual Revenue Forecast by Region

(2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Graphite Thermal Film Forecast by Type (2027-2032)

12.7 Global Graphite Thermal Film Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Panasonic Industry

13.1.1 Panasonic Industry Company Information

13.1.2 Panasonic Industry Graphite Thermal Film Product Portfolios and Specifications

13.1.3 Panasonic Industry Graphite Thermal Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Panasonic Industry Main Business Overview

13.1.5 Panasonic Industry Latest Developments

13.2 Kaneka

13.2.1 Kaneka Company Information

13.2.2 Kaneka Graphite Thermal Film Product Portfolios and Specifications

13.2.3 Kaneka Graphite Thermal Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Kaneka Main Business Overview

13.2.5 Kaneka Latest Developments

13.3 NeoGraf

13.3.1 NeoGraf Company Information

13.3.2 NeoGraf Graphite Thermal Film Product Portfolios and Specifications

13.3.3 NeoGraf Graphite Thermal Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 NeoGraf Main Business Overview

13.3.5 NeoGraf Latest Developments

13.4 Jones Tech

13.4.1 Jones Tech Company Information

13.4.2 Jones Tech Graphite Thermal Film Product Portfolios and Specifications

13.4.3 Jones Tech Graphite Thermal Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Jones Tech Main Business Overview

13.4.5 Jones Tech Latest Developments

13.5 Tanyuan Technology

- 13.5.1 Tanyuan Technology Company Information
- 13.5.2 Tanyuan Technology Graphite Thermal Film Product Portfolios and Specifications
- 13.5.3 Tanyuan Technology Graphite Thermal Film Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.5.4 Tanyuan Technology Main Business Overview
- 13.5.5 Tanyuan Technology Latest Developments
- 13.6 Shenzhen FRD Science & Technology
 - 13.6.1 Shenzhen FRD Science & Technology Company Information
 - 13.6.2 Shenzhen FRD Science & Technology Graphite Thermal Film Product Portfolios and Specifications
 - 13.6.3 Shenzhen FRD Science & Technology Graphite Thermal Film Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Shenzhen FRD Science & Technology Main Business Overview
 - 13.6.5 Shenzhen FRD Science & Technology Latest Developments
- 13.7 Guangdong Suqun New Material
 - 13.7.1 Guangdong Suqun New Material Company Information
 - 13.7.2 Guangdong Suqun New Material Graphite Thermal Film Product Portfolios and Specifications
 - 13.7.3 Guangdong Suqun New Material Graphite Thermal Film Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Guangdong Suqun New Material Main Business Overview
 - 13.7.5 Guangdong Suqun New Material Latest Developments
- 13.8 Shenzhen Istoneplus Thermal Management
 - 13.8.1 Shenzhen Istoneplus Thermal Management Company Information
 - 13.8.2 Shenzhen Istoneplus Thermal Management Graphite Thermal Film Product Portfolios and Specifications
 - 13.8.3 Shenzhen Istoneplus Thermal Management Graphite Thermal Film Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Shenzhen Istoneplus Thermal Management Main Business Overview
 - 13.8.5 Shenzhen Istoneplus Thermal Management Latest Developments
- 13.9 T-Global Technology
 - 13.9.1 T-Global Technology Company Information
 - 13.9.2 T-Global Technology Graphite Thermal Film Product Portfolios and Specifications
 - 13.9.3 T-Global Technology Graphite Thermal Film Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 T-Global Technology Main Business Overview
 - 13.9.5 T-Global Technology Latest Developments

13.10 Laird Performance Materials

13.10.1 Laird Performance Materials Company Information

13.10.2 Laird Performance Materials Graphite Thermal Film Product Portfolios and Specifications

13.10.3 Laird Performance Materials Graphite Thermal Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Laird Performance Materials Main Business Overview

13.10.5 Laird Performance Materials Latest Developments

13.11 Parker Chomerics

13.11.1 Parker Chomerics Company Information

13.11.2 Parker Chomerics Graphite Thermal Film Product Portfolios and Specifications

13.11.3 Parker Chomerics Graphite Thermal Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Parker Chomerics Main Business Overview

13.11.5 Parker Chomerics Latest Developments

13.12 Daoming Optics & Chemical

13.12.1 Daoming Optics & Chemical Company Information

13.12.2 Daoming Optics & Chemical Graphite Thermal Film Product Portfolios and Specifications

13.12.3 Daoming Optics & Chemical Graphite Thermal Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Daoming Optics & Chemical Main Business Overview

13.12.5 Daoming Optics & Chemical Latest Developments

13.13 BTR New Material Group

13.13.1 BTR New Material Group Company Information

13.13.2 BTR New Material Group Graphite Thermal Film Product Portfolios and Specifications

13.13.3 BTR New Material Group Graphite Thermal Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 BTR New Material Group Main Business Overview

13.13.5 BTR New Material Group Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Graphite Thermal Film Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Graphite Thermal Film Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Synthetic Graphite Film

Table 4. Major Players of Natural Graphite Film

Table 5. Major Players of Graphene Thermal Film

Table 6. Major Players of Composite Graphite Film

Table 7. Major Players of Other Graphite Thermal Film

Table 8. Global Graphite Thermal Film Sales by Type (2021-2026) & (Sq m)

Table 9. Global Graphite Thermal Film Sales Market Share by Type (2021-2026)

Table 10. Global Graphite Thermal Film Revenue by Type (2021-2026) & (\$ million)

Table 11. Global Graphite Thermal Film Revenue Market Share by Type (2021-2026)

Table 12. Global Graphite Thermal Film Sale Price by Type (2021-2026) & (US\$/Sq m)

Table 13. Major Players of Ultra-Thin Below 25 ?m

Table 14. Major Players of Thin 25-50 ?m

Table 15. Major Players of Medium 50-100 ?m

Table 16. Major Players of Thick Above 100 ?m

Table 17. Major Players of Other Thickness

Table 18. Global Graphite Thermal Film Sales by Thickness (2021-2026) & (Sq m)

Table 19. Global Graphite Thermal Film Sales Market Share by Thickness (2021-2026)

Table 20. Global Graphite Thermal Film Revenue by Thickness (2021-2026) & (\$ million)

Table 21. Global Graphite Thermal Film Revenue Market Share by Thickness (2021-2026)

Table 22. Global Graphite Thermal Film Sale Price by Thickness (2021-2026) & (US\$/Sq m)

Table 23. Major Players of Standard Conductivity Below 800 W/m?K

Table 24. Major Players of High Conductivity 800-1500 W/m?K

Table 25. Major Players of Ultra-High Conductivity Above 1500 W/m?K

Table 26. Major Players of Other Conductivity

Table 27. Global Graphite Thermal Film Sales by In-Plane Thermal Conductivity (2021-2026) & (Sq m)

Table 28. Global Graphite Thermal Film Sales Market Share by In-Plane Thermal Conductivity (2021-2026)

Table 29. Global Graphite Thermal Film Revenue by In-Plane Thermal Conductivity (2021-2026) & (\$ million)

Table 30. Global Graphite Thermal Film Revenue Market Share by In-Plane Thermal Conductivity (2021-2026)

Table 31. Global Graphite Thermal Film Sale Price by In-Plane Thermal Conductivity (2021-2026) & (US\$/Sq m)

Table 32. Major Players of Bare Graphite Film

Table 33. Major Players of Adhesive-Backed Graphite Film

Table 34. Major Players of Insulation-Laminated Graphite Film

Table 35. Major Players of Metal-Foil Composite Graphite Film

Table 36. Major Players of Die-Cut Graphite Part

Table 37. Global Graphite Thermal Film Sales by Product Structure (2021-2026) & (Sq m)

Table 38. Global Graphite Thermal Film Sales Market Share by Product Structure (2021-2026)

Table 39. Global Graphite Thermal Film Revenue by Product Structure (2021-2026) & (\$ million)

Table 40. Global Graphite Thermal Film Revenue Market Share by Product Structure (2021-2026)

Table 41. Global Graphite Thermal Film Sale Price by Product Structure (2021-2026) & (US\$/Sq m)

Table 42. Global Graphite Thermal Film Sale by Application (2021-2026) & (Sq m)

Table 43. Global Graphite Thermal Film Sale Market Share by Application (2021-2026)

Table 44. Global Graphite Thermal Film Revenue by Application (2021-2026) & (\$ million)

Table 45. Global Graphite Thermal Film Revenue Market Share by Application (2021-2026)

Table 46. Global Graphite Thermal Film Sale Price by Application (2021-2026) & (US\$/Sq m)

Table 47. Global Graphite Thermal Film Sales by Company (2021-2026) & (Sq m)

Table 48. Global Graphite Thermal Film Sales Market Share by Company (2021-2026)

Table 49. Global Graphite Thermal Film Revenue by Company (2021-2026) & (\$ millions)

Table 50. Global Graphite Thermal Film Revenue Market Share by Company (2021-2026)

Table 51. Global Graphite Thermal Film Sale Price by Company (2021-2026) & (US\$/Sq m)

Table 52. Key Manufacturers Graphite Thermal Film Producing Area Distribution and Sales Area

Table 53. Players Graphite Thermal Film Products Offered

Table 54. Graphite Thermal Film Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 55. New Products and Potential Entrants

Table 56. Market M&A Activity & Strategy

Table 57. Global Graphite Thermal Film Sales by Geographic Region (2021-2026) & (Sq m)

Table 58. Global Graphite Thermal Film Sales Market Share Geographic Region (2021-2026)

Table 59. Global Graphite Thermal Film Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 60. Global Graphite Thermal Film Revenue Market Share by Geographic Region (2021-2026)

Table 61. Global Graphite Thermal Film Sales by Country/Region (2021-2026) & (Sq m)

Table 62. Global Graphite Thermal Film Sales Market Share by Country/Region (2021-2026)

Table 63. Global Graphite Thermal Film Revenue by Country/Region (2021-2026) & (\$ millions)

Table 64. Global Graphite Thermal Film Revenue Market Share by Country/Region (2021-2026)

Table 65. Americas Graphite Thermal Film Sales by Country (2021-2026) & (Sq m)

Table 66. Americas Graphite Thermal Film Sales Market Share by Country (2021-2026)

Table 67. Americas Graphite Thermal Film Revenue by Country (2021-2026) & (\$ millions)

Table 68. Americas Graphite Thermal Film Sales by Type (2021-2026) & (Sq m)

Table 69. Americas Graphite Thermal Film Sales by Application (2021-2026) & (Sq m)

Table 70. APAC Graphite Thermal Film Sales by Region (2021-2026) & (Sq m)

Table 71. APAC Graphite Thermal Film Sales Market Share by Region (2021-2026)

Table 72. APAC Graphite Thermal Film Revenue by Region (2021-2026) & (\$ millions)

Table 73. APAC Graphite Thermal Film Sales by Type (2021-2026) & (Sq m)

Table 74. APAC Graphite Thermal Film Sales by Application (2021-2026) & (Sq m)

Table 75. Europe Graphite Thermal Film Sales by Country (2021-2026) & (Sq m)

Table 76. Europe Graphite Thermal Film Revenue by Country (2021-2026) & (\$ millions)

Table 77. Europe Graphite Thermal Film Sales by Type (2021-2026) & (Sq m)

Table 78. Europe Graphite Thermal Film Sales by Application (2021-2026) & (Sq m)

Table 79. Middle East & Africa Graphite Thermal Film Sales by Country (2021-2026) & (Sq m)

Table 80. Middle East & Africa Graphite Thermal Film Revenue Market Share by

Country (2021-2026)

Table 81. Middle East & Africa Graphite Thermal Film Sales by Type (2021-2026) & (Sq m)

Table 82. Middle East & Africa Graphite Thermal Film Sales by Application (2021-2026) & (Sq m)

Table 83. Key Market Drivers & Growth Opportunities of Graphite Thermal Film

Table 84. Key Market Challenges & Risks of Graphite Thermal Film

Table 85. Key Industry Trends of Graphite Thermal Film

Table 86. Graphite Thermal Film Raw Material

Table 87. Key Suppliers of Raw Materials

Table 88. Graphite Thermal Film Distributors List

Table 89. Graphite Thermal Film Customer List

Table 90. Global Graphite Thermal Film Sales Forecast by Region (2027-2032) & (Sq m)

Table 91. Global Graphite Thermal Film Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 92. Americas Graphite Thermal Film Sales Forecast by Country (2027-2032) & (Sq m)

Table 93. Americas Graphite Thermal Film Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 94. APAC Graphite Thermal Film Sales Forecast by Region (2027-2032) & (Sq m)

Table 95. APAC Graphite Thermal Film Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 96. Europe Graphite Thermal Film Sales Forecast by Country (2027-2032) & (Sq m)

Table 97. Europe Graphite Thermal Film Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 98. Middle East & Africa Graphite Thermal Film Sales Forecast by Country (2027-2032) & (Sq m)

Table 99. Middle East & Africa Graphite Thermal Film Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 100. Global Graphite Thermal Film Sales Forecast by Type (2027-2032) & (Sq m)

Table 101. Global Graphite Thermal Film Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 102. Global Graphite Thermal Film Sales Forecast by Application (2027-2032) & (Sq m)

Table 103. Global Graphite Thermal Film Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 104. Panasonic Industry Basic Information, Graphite Thermal Film Manufacturing Base, Sales Area and Its Competitors

Table 105. Panasonic Industry Graphite Thermal Film Product Portfolios and Specifications

Table 106. Panasonic Industry Graphite Thermal Film Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 107. Panasonic Industry Main Business

Table 108. Panasonic Industry Latest Developments

Table 109. Kaneka Basic Information, Graphite Thermal Film Manufacturing Base, Sales Area and Its Competitors

Table 110. Kaneka Graphite Thermal Film Product Portfolios and Specifications

Table 111. Kaneka Graphite Thermal Film Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 112. Kaneka Main Business

Table 113. Kaneka Latest Developments

Table 114. NeoGraf Basic Information, Graphite Thermal Film Manufacturing Base, Sales Area and Its Competitors

Table 115. NeoGraf Graphite Thermal Film Product Portfolios and Specifications

Table 116. NeoGraf Graphite Thermal Film Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 117. NeoGraf Main Business

Table 118. NeoGraf Latest Developments

Table 119. Jones Tech Basic Information, Graphite Thermal Film Manufacturing Base, Sales Area and Its Competitors

Table 120. Jones Tech Graphite Thermal Film Product Portfolios and Specifications

Table 121. Jones Tech Graphite Thermal Film Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 122. Jones Tech Main Business

Table 123. Jones Tech Latest Developments

Table 124. Tanyuan Technology Basic Information, Graphite Thermal Film Manufacturing Base, Sales Area and Its Competitors

Table 125. Tanyuan Technology Graphite Thermal Film Product Portfolios and Specifications

Table 126. Tanyuan Technology Graphite Thermal Film Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 127. Tanyuan Technology Main Business

Table 128. Tanyuan Technology Latest Developments

Table 129. Shenzhen FRD Science & Technology Basic Information, Graphite Thermal Film Manufacturing Base, Sales Area and Its Competitors

Table 130. Shenzhen FRD Science & Technology Graphite Thermal Film Product Portfolios and Specifications

Table 131. Shenzhen FRD Science & Technology Graphite Thermal Film Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 132. Shenzhen FRD Science & Technology Main Business

Table 133. Shenzhen FRD Science & Technology Latest Developments

Table 134. Guangdong Suqun New Material Basic Information, Graphite Thermal Film Manufacturing Base, Sales Area and Its Competitors

Table 135. Guangdong Suqun New Material Graphite Thermal Film Product Portfolios and Specifications

Table 136. Guangdong Suqun New Material Graphite Thermal Film Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 137. Guangdong Suqun New Material Main Business

Table 138. Guangdong Suqun New Material Latest Developments

Table 139. Shenzhen Istoneplus Thermal Management Basic Information, Graphite Thermal Film Manufacturing Base, Sales Area and Its Competitors

Table 140. Shenzhen Istoneplus Thermal Management Graphite Thermal Film Product Portfolios and Specifications

Table 141. Shenzhen Istoneplus Thermal Management Graphite Thermal Film Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 142. Shenzhen Istoneplus Thermal Management Main Business

Table 143. Shenzhen Istoneplus Thermal Management Latest Developments

Table 144. T-Global Technology Basic Information, Graphite Thermal Film Manufacturing Base, Sales Area and Its Competitors

Table 145. T-Global Technology Graphite Thermal Film Product Portfolios and Specifications

Table 146. T-Global Technology Graphite Thermal Film Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 147. T-Global Technology Main Business

Table 148. T-Global Technology Latest Developments

Table 149. Laird Performance Materials Basic Information, Graphite Thermal Film Manufacturing Base, Sales Area and Its Competitors

Table 150. Laird Performance Materials Graphite Thermal Film Product Portfolios and Specifications

Table 151. Laird Performance Materials Graphite Thermal Film Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 152. Laird Performance Materials Main Business

Table 153. Laird Performance Materials Latest Developments

Table 154. Parker Chomerics Basic Information, Graphite Thermal Film Manufacturing

Base, Sales Area and Its Competitors

Table 155. Parker Chomerics Graphite Thermal Film Product Portfolios and Specifications

Table 156. Parker Chomerics Graphite Thermal Film Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 157. Parker Chomerics Main Business

Table 158. Parker Chomerics Latest Developments

Table 159. Daoming Optics & Chemical Basic Information, Graphite Thermal Film Manufacturing Base, Sales Area and Its Competitors

Table 160. Daoming Optics & Chemical Graphite Thermal Film Product Portfolios and Specifications

Table 161. Daoming Optics & Chemical Graphite Thermal Film Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 162. Daoming Optics & Chemical Main Business

Table 163. Daoming Optics & Chemical Latest Developments

Table 164. BTR New Material Group Basic Information, Graphite Thermal Film Manufacturing Base, Sales Area and Its Competitors

Table 165. BTR New Material Group Graphite Thermal Film Product Portfolios and Specifications

Table 166. BTR New Material Group Graphite Thermal Film Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 167. BTR New Material Group Main Business

Table 168. BTR New Material Group Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Graphite Thermal Film
- Figure 2. Graphite Thermal Film Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Graphite Thermal Film Sales Growth Rate 2021-2032 (Sq m)
- Figure 7. Global Graphite Thermal Film Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Graphite Thermal Film Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Graphite Thermal Film Sales Market Share by Country/Region (2025)
- Figure 10. Graphite Thermal Film Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Synthetic Graphite Film
- Figure 12. Product Picture of Natural Graphite Film
- Figure 13. Product Picture of Graphene Thermal Film
- Figure 14. Product Picture of Composite Graphite Film
- Figure 15. Product Picture of Other Graphite Thermal Film
- Figure 16. Global Graphite Thermal Film Sales Market Share by Type in 2026
- Figure 17. Global Graphite Thermal Film Revenue Market Share by Type (2021-2026)
- Figure 18. Product Picture of Ultra-Thin Below 25 μ m
- Figure 19. Product Picture of Thin 25-50 μ m
- Figure 20. Product Picture of Medium 50-100 μ m
- Figure 21. Product Picture of Thick Above 100 μ m
- Figure 22. Product Picture of Other Thickness
- Figure 23. Global Graphite Thermal Film Sales Market Share by Thickness in 2026
- Figure 24. Global Graphite Thermal Film Revenue Market Share by Thickness (2021-2026)
- Figure 25. Product Picture of Standard Conductivity Below 800 W/m²K
- Figure 26. Product Picture of High Conductivity 800-1500 W/m²K
- Figure 27. Product Picture of Ultra-High Conductivity Above 1500 W/m²K
- Figure 28. Product Picture of Other Conductivity
- Figure 29. Global Graphite Thermal Film Sales Market Share by In-Plane Thermal Conductivity in 2026
- Figure 30. Global Graphite Thermal Film Revenue Market Share by In-Plane Thermal Conductivity (2021-2026)

Figure 31. Product Picture of Bare Graphite Film

Figure 32. Product Picture of Adhesive-Backed Graphite Film

Figure 33. Product Picture of Insulation-Laminated Graphite Film

Figure 34. Product Picture of Metal-Foil Composite Graphite Film

Figure 35. Product Picture of Die-Cut Graphite Part

Figure 36. Global Graphite Thermal Film Sales Market Share by Product Structure in 2026

Figure 37. Global Graphite Thermal Film Revenue Market Share by Product Structure (2021-2026)

Figure 38. Graphite Thermal Film Consumed in Mobile Devices

Figure 39. Global Graphite Thermal Film Market: Mobile Devices (2021-2026) & (Sq m)

Figure 40. Graphite Thermal Film Consumed in PCs and Wearables

Figure 41. Global Graphite Thermal Film Market: PCs and Wearables (2021-2026) & (Sq m)

Figure 42. Graphite Thermal Film Consumed in Telecommunications and Data Infrastructure

Figure 43. Global Graphite Thermal Film Market: Telecommunications and Data Infrastructure (2021-2026) & (Sq m)

Figure 44. Graphite Thermal Film Consumed in Automotive Electronics and Batteries

Figure 45. Global Graphite Thermal Film Market: Automotive Electronics and Batteries (2021-2026) & (Sq m)

Figure 46. Graphite Thermal Film Consumed in Power Electronics and Industrial Equipment

Figure 47. Global Graphite Thermal Film Market: Power Electronics and Industrial Equipment (2021-2026) & (Sq m)

Figure 48. Graphite Thermal Film Consumed in Display and Lighting

Figure 49. Global Graphite Thermal Film Market: Display and Lighting (2021-2026) & (Sq m)

Figure 50. Global Graphite Thermal Film Sale Market Share by Application (2025)

Figure 51. Global Graphite Thermal Film Revenue Market Share by Application in 2025

Figure 52. Graphite Thermal Film Sales by Company in 2025 (Sq m)

Figure 53. Global Graphite Thermal Film Sales Market Share by Company in 2025

Figure 54. Graphite Thermal Film Revenue by Company in 2025 (\$ millions)

Figure 55. Global Graphite Thermal Film Revenue Market Share by Company in 2025

Figure 56. Global Graphite Thermal Film Sales Market Share by Geographic Region (2021-2026)

Figure 57. Global Graphite Thermal Film Revenue Market Share by Geographic Region in 2025

Figure 58. Americas Graphite Thermal Film Sales 2021-2026 (Sq m)

- Figure 59. Americas Graphite Thermal Film Revenue 2021-2026 (\$ millions)
- Figure 60. APAC Graphite Thermal Film Sales 2021-2026 (Sq m)
- Figure 61. APAC Graphite Thermal Film Revenue 2021-2026 (\$ millions)
- Figure 62. Europe Graphite Thermal Film Sales 2021-2026 (Sq m)
- Figure 63. Europe Graphite Thermal Film Revenue 2021-2026 (\$ millions)
- Figure 64. Middle East & Africa Graphite Thermal Film Sales 2021-2026 (Sq m)
- Figure 65. Middle East & Africa Graphite Thermal Film Revenue 2021-2026 (\$ millions)
- Figure 66. Americas Graphite Thermal Film Sales Market Share by Country in 2025
- Figure 67. Americas Graphite Thermal Film Revenue Market Share by Country (2021-2026)
- Figure 68. Americas Graphite Thermal Film Sales Market Share by Type (2021-2026)
- Figure 69. Americas Graphite Thermal Film Sales Market Share by Application (2021-2026)
- Figure 70. United States Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)
- Figure 71. Canada Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)
- Figure 72. Mexico Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)
- Figure 73. Brazil Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)
- Figure 74. APAC Graphite Thermal Film Sales Market Share by Region in 2025
- Figure 75. APAC Graphite Thermal Film Revenue Market Share by Region (2021-2026)
- Figure 76. APAC Graphite Thermal Film Sales Market Share by Type (2021-2026)
- Figure 77. APAC Graphite Thermal Film Sales Market Share by Application (2021-2026)
- Figure 78. China Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)
- Figure 79. Japan Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)
- Figure 80. South Korea Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)
- Figure 81. Southeast Asia Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)
- Figure 82. India Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)
- Figure 83. Australia Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)
- Figure 84. China Taiwan Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)
- Figure 85. Europe Graphite Thermal Film Sales Market Share by Country in 2025
- Figure 86. Europe Graphite Thermal Film Revenue Market Share by Country (2021-2026)
- Figure 87. Europe Graphite Thermal Film Sales Market Share by Type (2021-2026)
- Figure 88. Europe Graphite Thermal Film Sales Market Share by Application (2021-2026)
- Figure 89. Germany Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)
- Figure 90. France Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)

Figure 91. UK Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)

Figure 92. Italy Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)

Figure 93. Russia Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)

Figure 94. Middle East & Africa Graphite Thermal Film Sales Market Share by Country (2021-2026)

Figure 95. Middle East & Africa Graphite Thermal Film Sales Market Share by Type (2021-2026)

Figure 96. Middle East & Africa Graphite Thermal Film Sales Market Share by Application (2021-2026)

Figure 97. Egypt Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)

Figure 98. South Africa Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)

Figure 99. Israel Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)

Figure 100. Turkey Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)

Figure 101. GCC Countries Graphite Thermal Film Revenue Growth 2021-2026 (\$ millions)

Figure 102. Manufacturing Cost Structure Analysis of Graphite Thermal Film in 2026

Figure 103. Manufacturing Process Analysis of Graphite Thermal Film

Figure 104. Industry Chain Structure of Graphite Thermal Film

Figure 105. Channels of Distribution

Figure 106. Global Graphite Thermal Film Sales Market Forecast by Region (2027-2032)

Figure 107. Global Graphite Thermal Film Revenue Market Share Forecast by Region (2027-2032)

Figure 108. Global Graphite Thermal Film Sales Market Share Forecast by Type (2027-2032)

Figure 109. Global Graphite Thermal Film Revenue Market Share Forecast by Type (2027-2032)

Figure 110. Global Graphite Thermal Film Sales Market Share Forecast by Application (2027-2032)

Figure 111. Global Graphite Thermal Film Revenue Market Share Forecast by Application (2027-2032)

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