

# Global Ultra Low-K Film Market Growth 2026-2032

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## Abstracts

The global Ultra Low-K Film market size is predicted to grow from US\$ 101 million in 2025 to US\$ 197 million in 2032; it is expected to grow at a CAGR of 10.2% from 2026 to 2032.

In 2025, sales of ultra-low-k films reached 826,000 units, with an average price of \$125 per unit.

### Ultra-low-k (k

The core raw material for ultra-low dielectric constant (ULK) films is organosilane precursors (such as diethoxymethylsilane (DEMS), trimethylsilane (TMCTS), and tetraethoxysilane (TEOS)). These precursors are prepared from high-purity silicon powder, methanol/ethanol, etc., via Grignard reactions or direct synthesis methods. The technology has extremely high barriers to entry, and currently, the supply is mainly monopolized by a few companies such as Merck (Germany), DuPont/Dow (USA), and Shin-Etsu Chemical (Japan). Pore-forming agents are another key raw material, typically thermally unstable organic polymers (such as norbornene and acrylates). They need to decompose and volatilize at specific temperatures to form nanopores, and their molecular structure design directly affects porosity and pore size distribution. In addition, high-purity carrier gases (helium, nitrogen), catalysts, and UV curing equipment are also indispensable. Domestically produced precursors still lag behind imported products in terms of purity and stability, leading to a reliance on imports for high-end ULK materials.

In the cost structure of ultra-low dielectric constant films, raw material costs account for the largest proportion (approximately 50-60%), with organosilane precursors accounting for over 70% and pore-forming agents accounting for 20-30%. Equipment depreciation and maintenance costs account for approximately 20-25%, as PECVD and UV curing equipment must be imported from international equipment manufacturers such as

Applied Materials (AMAT) and Lam Research, with each unit costing millions of US dollars. R&D and technology licensing fees account for approximately 10-15%, including patent licensing (such as the patent pools of Applied Materials' Black Diamond and Dow SiLK) and process development costs. Production and operating costs (cleanroom, energy consumption, and labor) account for approximately 10%. Due to technological monopolies and patent barriers, the gross profit margin of ultra-low dielectric constant films is extremely high (approximately 60-80%), but R&D investment is enormous, with a single production line investment reaching hundreds of millions of RMB.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ultra Low-K 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 Ultra Low-K Film.

This report presents a comprehensive overview, market shares, and growth opportunities of Ultra Low-K Film market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

**Inorganic Silicon-based Materials**

Organic Polymer Materials

Other

Segmentation by Preparation Processes:

PECVD

SOD Spin Coating

Segmentation by Porous Structures:

Closed-Cell Structures

Open-Cell Structures

Segmentation by Application:

Integrated Circuit (IC) Interconnect Structures

Advanced Semiconductor Packaging

Other

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.

Incaptek

Lam Research

ASM International

Applied Materials

Tokyo Ohka Kogyo

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Ultra Low-K Film market?

What factors are driving Ultra Low-K Film market growth, globally and by region?

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

How do Ultra Low-K Film market opportunities vary by end market size?

How does Ultra Low-K 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 Ultra Low-K Film Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Ultra Low-K Film by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Ultra Low-K Film by Country/Region, 2021, 2025 & 2032

#### 2.2 Ultra Low-K Film Segment by Type

- 2.2.1 Inorganic Silicon-based Materials
- 2.2.2 Organic Polymer Materials
- 2.2.3 Other
- 2.2.4 Ultra Low-K Film Sales by Type
  - 2.2.4.1 Global Ultra Low-K Film Sales Market Share by Type (2021-2026)
  - 2.2.4.2 Global Ultra Low-K Film Revenue and Market Share by Type (2021-2026)
  - 2.2.4.3 Global Ultra Low-K Film Sale Price by Type (2021-2026)

#### 2.3 Ultra Low-K Film Segment by Preparation Processes

- 2.3.1 PECVD
- 2.3.2 SOD Spin Coating
- 2.3.3 Ultra Low-K Film Sales by Preparation Processes
  - 2.3.3.1 Global Ultra Low-K Film Sales Market Share by Preparation Processes (2021-2026)
  - 2.3.3.2 Global Ultra Low-K Film Revenue and Market Share by Preparation Processes (2021-2026)
  - 2.3.3.3 Global Ultra Low-K Film Sale Price by Preparation Processes (2021-2026)

#### 2.4 Ultra Low-K Film Segment by Porous Structures

2.4.1 Closed-Cell Structures

2.4.2 Open-Cell Structures

2.4.3 Ultra Low-K Film Sales by Porous Structures

2.4.3.1 Global Ultra Low-K Film Sales Market Share by Porous Structures  
(2021-2026)

2.4.3.2 Global Ultra Low-K Film Revenue and Market Share by Porous Structures  
(2021-2026)

2.4.3.3 Global Ultra Low-K Film Sale Price by Porous Structures (2021-2026)

2.5 Ultra Low-K Film Segment by Application

2.5.1 Integrated Circuit (IC) Interconnect Structures

2.5.2 Advanced Semiconductor Packaging

2.5.3 Other

2.5.4 Ultra Low-K Film Sales by Application

2.5.4.1 Global Ultra Low-K Film Sale Market Share by Application (2021-2026)

2.5.4.2 Global Ultra Low-K Film Revenue and Market Share by Application  
(2021-2026)

2.5.4.3 Global Ultra Low-K Film Sale Price by Application (2021-2026)

### **3 GLOBAL BY COMPANY**

3.1 Global Ultra Low-K Film Breakdown Data by Company

3.1.1 Global Ultra Low-K Film Annual Sales by Company (2021-2026)

3.1.2 Global Ultra Low-K Film Sales Market Share by Company (2021-2026)

3.2 Global Ultra Low-K Film Annual Revenue by Company (2021-2026)

3.2.1 Global Ultra Low-K Film Revenue by Company (2021-2026)

3.2.2 Global Ultra Low-K Film Revenue Market Share by Company (2021-2026)

3.3 Global Ultra Low-K Film Sale Price by Company

3.4 Key Manufacturers Ultra Low-K Film Producing Area Distribution, Sales Area,  
Product Type

3.4.1 Key Manufacturers Ultra Low-K Film Product Location Distribution

3.4.2 Players Ultra Low-K 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 ULTRA LOW-K FILM BY GEOGRAPHIC REGION**

- 4.1 World Historic Ultra Low-K Film Market Size by Geographic Region (2021-2026)
  - 4.1.1 Global Ultra Low-K Film Annual Sales by Geographic Region (2021-2026)
  - 4.1.2 Global Ultra Low-K Film Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Ultra Low-K Film Market Size by Country/Region (2021-2026)
  - 4.2.1 Global Ultra Low-K Film Annual Sales by Country/Region (2021-2026)
  - 4.2.2 Global Ultra Low-K Film Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Ultra Low-K Film Sales Growth
- 4.4 APAC Ultra Low-K Film Sales Growth
- 4.5 Europe Ultra Low-K Film Sales Growth
- 4.6 Middle East & Africa Ultra Low-K Film Sales Growth

## **5 AMERICAS**

- 5.1 Americas Ultra Low-K Film Sales by Country
  - 5.1.1 Americas Ultra Low-K Film Sales by Country (2021-2026)
  - 5.1.2 Americas Ultra Low-K Film Revenue by Country (2021-2026)
- 5.2 Americas Ultra Low-K Film Sales by Type (2021-2026)
- 5.3 Americas Ultra Low-K Film Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

## **6 APAC**

- 6.1 APAC Ultra Low-K Film Sales by Region
  - 6.1.1 APAC Ultra Low-K Film Sales by Region (2021-2026)
  - 6.1.2 APAC Ultra Low-K Film Revenue by Region (2021-2026)
- 6.2 APAC Ultra Low-K Film Sales by Type (2021-2026)
- 6.3 APAC Ultra Low-K 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 Ultra Low-K Film by Country

7.1.1 Europe Ultra Low-K Film Sales by Country (2021-2026)

7.1.2 Europe Ultra Low-K Film Revenue by Country (2021-2026)

### 7.2 Europe Ultra Low-K Film Sales by Type (2021-2026)

### 7.3 Europe Ultra Low-K 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 Ultra Low-K Film by Country

8.1.1 Middle East & Africa Ultra Low-K Film Sales by Country (2021-2026)

8.1.2 Middle East & Africa Ultra Low-K Film Revenue by Country (2021-2026)

### 8.2 Middle East & Africa Ultra Low-K Film Sales by Type (2021-2026)

### 8.3 Middle East & Africa Ultra Low-K 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 Ultra Low-K Film

### 10.3 Manufacturing Process Analysis of Ultra Low-K Film

### 10.4 Industry Chain Structure of Ultra Low-K Film

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

- 11.1 Sales Channel
  - 11.1.1 Direct Channels
  - 11.1.2 Indirect Channels
- 11.2 Ultra Low-K Film Distributors
- 11.3 Ultra Low-K Film Customer

## **12 WORLD FORECAST REVIEW FOR ULTRA LOW-K FILM BY GEOGRAPHIC REGION**

- 12.1 Global Ultra Low-K Film Market Size Forecast by Region
  - 12.1.1 Global Ultra Low-K Film Forecast by Region (2027-2032)
  - 12.1.2 Global Ultra Low-K 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 Ultra Low-K Film Forecast by Type (2027-2032)
- 12.7 Global Ultra Low-K Film Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

- 13.1 Incaptek
  - 13.1.1 Incaptek Company Information
  - 13.1.2 Incaptek Ultra Low-K Film Product Portfolios and Specifications
  - 13.1.3 Incaptek Ultra Low-K Film Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.1.4 Incaptek Main Business Overview
  - 13.1.5 Incaptek Latest Developments
- 13.2 Lam Research
  - 13.2.1 Lam Research Company Information
  - 13.2.2 Lam Research Ultra Low-K Film Product Portfolios and Specifications
  - 13.2.3 Lam Research Ultra Low-K Film Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.2.4 Lam Research Main Business Overview
  - 13.2.5 Lam Research Latest Developments
- 13.3 ASM International
  - 13.3.1 ASM International Company Information

- 13.3.2 ASM International Ultra Low-K Film Product Portfolios and Specifications
- 13.3.3 ASM International Ultra Low-K Film Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 ASM International Main Business Overview
- 13.3.5 ASM International Latest Developments
- 13.4 Applied Materials
  - 13.4.1 Applied Materials Company Information
  - 13.4.2 Applied Materials Ultra Low-K Film Product Portfolios and Specifications
  - 13.4.3 Applied Materials Ultra Low-K Film Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.4.4 Applied Materials Main Business Overview
  - 13.4.5 Applied Materials Latest Developments
- 13.5 Tokyo Ohka Kogyo
  - 13.5.1 Tokyo Ohka Kogyo Company Information
  - 13.5.2 Tokyo Ohka Kogyo Ultra Low-K Film Product Portfolios and Specifications
  - 13.5.3 Tokyo Ohka Kogyo Ultra Low-K Film Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.5.4 Tokyo Ohka Kogyo Main Business Overview
  - 13.5.5 Tokyo Ohka Kogyo Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Ultra Low-K Film Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Ultra Low-K Film Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Inorganic Silicon-based Materials

Table 4. Major Players of Organic Polymer Materials

Table 5. Major Players of Other

Table 6. Global Ultra Low-K Film Sales by Type (2021-2026) & (K Pcs)

Table 7. Global Ultra Low-K Film Sales Market Share by Type (2021-2026)

Table 8. Global Ultra Low-K Film Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Ultra Low-K Film Revenue Market Share by Type (2021-2026)

Table 10. Global Ultra Low-K Film Sale Price by Type (2021-2026) & (US\$/Pc)

Table 11. Major Players of PECVD

Table 12. Major Players of SOD Spin Coating

Table 13. Global Ultra Low-K Film Sales by Preparation Processes (2021-2026) & (K Pcs)

Table 14. Global Ultra Low-K Film Sales Market Share by Preparation Processes (2021-2026)

Table 15. Global Ultra Low-K Film Revenue by Preparation Processes (2021-2026) & (\$ million)

Table 16. Global Ultra Low-K Film Revenue Market Share by Preparation Processes (2021-2026)

Table 17. Global Ultra Low-K Film Sale Price by Preparation Processes (2021-2026) & (US\$/Pc)

Table 18. Major Players of Closed-Cell Structures

Table 19. Major Players of Open-Cell Structures

Table 20. Global Ultra Low-K Film Sales by Porous Structures (2021-2026) & (K Pcs)

Table 21. Global Ultra Low-K Film Sales Market Share by Porous Structures (2021-2026)

Table 22. Global Ultra Low-K Film Revenue by Porous Structures (2021-2026) & (\$ million)

Table 23. Global Ultra Low-K Film Revenue Market Share by Porous Structures (2021-2026)

Table 24. Global Ultra Low-K Film Sale Price by Porous Structures (2021-2026) & (US\$/Pc)

- Table 25. Global Ultra Low-K Film Sale by Application (2021-2026) & (K Pcs)
- Table 26. Global Ultra Low-K Film Sale Market Share by Application (2021-2026)
- Table 27. Global Ultra Low-K Film Revenue by Application (2021-2026) & (\$ million)
- Table 28. Global Ultra Low-K Film Revenue Market Share by Application (2021-2026)
- Table 29. Global Ultra Low-K Film Sale Price by Application (2021-2026) & (US\$/Pc)
- Table 30. Global Ultra Low-K Film Sales by Company (2021-2026) & (K Pcs)
- Table 31. Global Ultra Low-K Film Sales Market Share by Company (2021-2026)
- Table 32. Global Ultra Low-K Film Revenue by Company (2021-2026) & (\$ millions)
- Table 33. Global Ultra Low-K Film Revenue Market Share by Company (2021-2026)
- Table 34. Global Ultra Low-K Film Sale Price by Company (2021-2026) & (US\$/Pc)
- Table 35. Key Manufacturers Ultra Low-K Film Producing Area Distribution and Sales Area
- Table 36. Players Ultra Low-K Film Products Offered
- Table 37. Ultra Low-K Film Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 38. New Products and Potential Entrants
- Table 39. Market M&A Activity & Strategy
- Table 40. Global Ultra Low-K Film Sales by Geographic Region (2021-2026) & (K Pcs)
- Table 41. Global Ultra Low-K Film Sales Market Share Geographic Region (2021-2026)
- Table 42. Global Ultra Low-K Film Revenue by Geographic Region (2021-2026) & (\$ millions)
- Table 43. Global Ultra Low-K Film Revenue Market Share by Geographic Region (2021-2026)
- Table 44. Global Ultra Low-K Film Sales by Country/Region (2021-2026) & (K Pcs)
- Table 45. Global Ultra Low-K Film Sales Market Share by Country/Region (2021-2026)
- Table 46. Global Ultra Low-K Film Revenue by Country/Region (2021-2026) & (\$ millions)
- Table 47. Global Ultra Low-K Film Revenue Market Share by Country/Region (2021-2026)
- Table 48. Americas Ultra Low-K Film Sales by Country (2021-2026) & (K Pcs)
- Table 49. Americas Ultra Low-K Film Sales Market Share by Country (2021-2026)
- Table 50. Americas Ultra Low-K Film Revenue by Country (2021-2026) & (\$ millions)
- Table 51. Americas Ultra Low-K Film Sales by Type (2021-2026) & (K Pcs)
- Table 52. Americas Ultra Low-K Film Sales by Application (2021-2026) & (K Pcs)
- Table 53. APAC Ultra Low-K Film Sales by Region (2021-2026) & (K Pcs)
- Table 54. APAC Ultra Low-K Film Sales Market Share by Region (2021-2026)
- Table 55. APAC Ultra Low-K Film Revenue by Region (2021-2026) & (\$ millions)
- Table 56. APAC Ultra Low-K Film Sales by Type (2021-2026) & (K Pcs)
- Table 57. APAC Ultra Low-K Film Sales by Application (2021-2026) & (K Pcs)
- Table 58. Europe Ultra Low-K Film Sales by Country (2021-2026) & (K Pcs)

- Table 59. Europe Ultra Low-K Film Revenue by Country (2021-2026) & (\$ millions)
- Table 60. Europe Ultra Low-K Film Sales by Type (2021-2026) & (K Pcs)
- Table 61. Europe Ultra Low-K Film Sales by Application (2021-2026) & (K Pcs)
- Table 62. Middle East & Africa Ultra Low-K Film Sales by Country (2021-2026) & (K Pcs)
- Table 63. Middle East & Africa Ultra Low-K Film Revenue Market Share by Country (2021-2026)
- Table 64. Middle East & Africa Ultra Low-K Film Sales by Type (2021-2026) & (K Pcs)
- Table 65. Middle East & Africa Ultra Low-K Film Sales by Application (2021-2026) & (K Pcs)
- Table 66. Key Market Drivers & Growth Opportunities of Ultra Low-K Film
- Table 67. Key Market Challenges & Risks of Ultra Low-K Film
- Table 68. Key Industry Trends of Ultra Low-K Film
- Table 69. Ultra Low-K Film Raw Material
- Table 70. Key Suppliers of Raw Materials
- Table 71. Ultra Low-K Film Distributors List
- Table 72. Ultra Low-K Film Customer List
- Table 73. Global Ultra Low-K Film Sales Forecast by Region (2027-2032) & (K Pcs)
- Table 74. Global Ultra Low-K Film Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 75. Americas Ultra Low-K Film Sales Forecast by Country (2027-2032) & (K Pcs)
- Table 76. Americas Ultra Low-K Film Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 77. APAC Ultra Low-K Film Sales Forecast by Region (2027-2032) & (K Pcs)
- Table 78. APAC Ultra Low-K Film Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 79. Europe Ultra Low-K Film Sales Forecast by Country (2027-2032) & (K Pcs)
- Table 80. Europe Ultra Low-K Film Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 81. Middle East & Africa Ultra Low-K Film Sales Forecast by Country (2027-2032) & (K Pcs)
- Table 82. Middle East & Africa Ultra Low-K Film Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 83. Global Ultra Low-K Film Sales Forecast by Type (2027-2032) & (K Pcs)
- Table 84. Global Ultra Low-K Film Revenue Forecast by Type (2027-2032) & (\$ millions)
- Table 85. Global Ultra Low-K Film Sales Forecast by Application (2027-2032) & (K Pcs)
- Table 86. Global Ultra Low-K Film Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. Incaptek Basic Information, Ultra Low-K Film Manufacturing Base, Sales Area and Its Competitors

Table 88. Incaptek Ultra Low-K Film Product Portfolios and Specifications

Table 89. Incaptek Ultra Low-K Film Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 90. Incaptek Main Business

Table 91. Incaptek Latest Developments

Table 92. Lam Research Basic Information, Ultra Low-K Film Manufacturing Base, Sales Area and Its Competitors

Table 93. Lam Research Ultra Low-K Film Product Portfolios and Specifications

Table 94. Lam Research Ultra Low-K Film Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 95. Lam Research Main Business

Table 96. Lam Research Latest Developments

Table 97. ASM International Basic Information, Ultra Low-K Film Manufacturing Base, Sales Area and Its Competitors

Table 98. ASM International Ultra Low-K Film Product Portfolios and Specifications

Table 99. ASM International Ultra Low-K Film Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 100. ASM International Main Business

Table 101. ASM International Latest Developments

Table 102. Applied Materials Basic Information, Ultra Low-K Film Manufacturing Base, Sales Area and Its Competitors

Table 103. Applied Materials Ultra Low-K Film Product Portfolios and Specifications

Table 104. Applied Materials Ultra Low-K Film Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 105. Applied Materials Main Business

Table 106. Applied Materials Latest Developments

Table 107. Tokyo Ohka Kogyo Basic Information, Ultra Low-K Film Manufacturing Base, Sales Area and Its Competitors

Table 108. Tokyo Ohka Kogyo Ultra Low-K Film Product Portfolios and Specifications

Table 109. Tokyo Ohka Kogyo Ultra Low-K Film Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 110. Tokyo Ohka Kogyo Main Business

Table 111. Tokyo Ohka Kogyo Latest Developments

## List Of Figures

### LIST OF FIGURES

Figure 1. Picture of Ultra Low-K Film

Figure 2. Ultra Low-K Film Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Ultra Low-K Film Sales Growth Rate 2021-2032 (K Pcs)

Figure 7. Global Ultra Low-K Film Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Ultra Low-K Film Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Ultra Low-K Film Sales Market Share by Country/Region (2025)

Figure 10. Ultra Low-K Film Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Inorganic Silicon-based Materials

Figure 12. Product Picture of Organic Polymer Materials

Figure 13. Product Picture of Other

Figure 14. Global Ultra Low-K Film Sales Market Share by Type in 2026

Figure 15. Global Ultra Low-K Film Revenue Market Share by Type (2021-2026)

Figure 16. Product Picture of PECVD

Figure 17. Product Picture of SOD Spin Coating

Figure 18. Global Ultra Low-K Film Sales Market Share by Preparation Processes in 2026

Figure 19. Global Ultra Low-K Film Revenue Market Share by Preparation Processes (2021-2026)

Figure 20. Product Picture of Closed-Cell Structures

Figure 21. Product Picture of Open-Cell Structures

Figure 22. Global Ultra Low-K Film Sales Market Share by Porous Structures in 2026

Figure 23. Global Ultra Low-K Film Revenue Market Share by Porous Structures (2021-2026)

Figure 24. Ultra Low-K Film Consumed in Integrated Circuit (IC) Interconnect Structures

Figure 25. Global Ultra Low-K Film Market: Integrated Circuit (IC) Interconnect Structures (2021-2026) & (K Pcs)

Figure 26. Ultra Low-K Film Consumed in Advanced Semiconductor Packaging

Figure 27. Global Ultra Low-K Film Market: Advanced Semiconductor Packaging (2021-2026) & (K Pcs)

Figure 28. Ultra Low-K Film Consumed in Other

- Figure 29. Global Ultra Low-K Film Market: Other (2021-2026) & (K Pcs)
- Figure 30. Global Ultra Low-K Film Sale Market Share by Application (2025)
- Figure 31. Global Ultra Low-K Film Revenue Market Share by Application in 2025
- Figure 32. Ultra Low-K Film Sales by Company in 2025 (K Pcs)
- Figure 33. Global Ultra Low-K Film Sales Market Share by Company in 2025
- Figure 34. Ultra Low-K Film Revenue by Company in 2025 (\$ millions)
- Figure 35. Global Ultra Low-K Film Revenue Market Share by Company in 2025
- Figure 36. Global Ultra Low-K Film Sales Market Share by Geographic Region (2021-2026)
- Figure 37. Global Ultra Low-K Film Revenue Market Share by Geographic Region in 2025
- Figure 38. Americas Ultra Low-K Film Sales 2021-2026 (K Pcs)
- Figure 39. Americas Ultra Low-K Film Revenue 2021-2026 (\$ millions)
- Figure 40. APAC Ultra Low-K Film Sales 2021-2026 (K Pcs)
- Figure 41. APAC Ultra Low-K Film Revenue 2021-2026 (\$ millions)
- Figure 42. Europe Ultra Low-K Film Sales 2021-2026 (K Pcs)
- Figure 43. Europe Ultra Low-K Film Revenue 2021-2026 (\$ millions)
- Figure 44. Middle East & Africa Ultra Low-K Film Sales 2021-2026 (K Pcs)
- Figure 45. Middle East & Africa Ultra Low-K Film Revenue 2021-2026 (\$ millions)
- Figure 46. Americas Ultra Low-K Film Sales Market Share by Country in 2025
- Figure 47. Americas Ultra Low-K Film Revenue Market Share by Country (2021-2026)
- Figure 48. Americas Ultra Low-K Film Sales Market Share by Type (2021-2026)
- Figure 49. Americas Ultra Low-K Film Sales Market Share by Application (2021-2026)
- Figure 50. United States Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 51. Canada Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 52. Mexico Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 53. Brazil Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 54. APAC Ultra Low-K Film Sales Market Share by Region in 2025
- Figure 55. APAC Ultra Low-K Film Revenue Market Share by Region (2021-2026)
- Figure 56. APAC Ultra Low-K Film Sales Market Share by Type (2021-2026)
- Figure 57. APAC Ultra Low-K Film Sales Market Share by Application (2021-2026)
- Figure 58. China Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 59. Japan Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 60. South Korea Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 61. Southeast Asia Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 62. India Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 63. Australia Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 64. China Taiwan Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 65. Europe Ultra Low-K Film Sales Market Share by Country in 2025

- Figure 66. Europe Ultra Low-K Film Revenue Market Share by Country (2021-2026)
- Figure 67. Europe Ultra Low-K Film Sales Market Share by Type (2021-2026)
- Figure 68. Europe Ultra Low-K Film Sales Market Share by Application (2021-2026)
- Figure 69. Germany Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 70. France Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 71. UK Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 72. Italy Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 73. Russia Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 74. Middle East & Africa Ultra Low-K Film Sales Market Share by Country (2021-2026)
- Figure 75. Middle East & Africa Ultra Low-K Film Sales Market Share by Type (2021-2026)
- Figure 76. Middle East & Africa Ultra Low-K Film Sales Market Share by Application (2021-2026)
- Figure 77. Egypt Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 78. South Africa Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 79. Israel Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 80. Turkey Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 81. GCC Countries Ultra Low-K Film Revenue Growth 2021-2026 (\$ millions)
- Figure 82. Manufacturing Cost Structure Analysis of Ultra Low-K Film in 2026
- Figure 83. Manufacturing Process Analysis of Ultra Low-K Film
- Figure 84. Industry Chain Structure of Ultra Low-K Film
- Figure 85. Channels of Distribution
- Figure 86. Global Ultra Low-K Film Sales Market Forecast by Region (2027-2032)
- Figure 87. Global Ultra Low-K Film Revenue Market Share Forecast by Region (2027-2032)
- Figure 88. Global Ultra Low-K Film Sales Market Share Forecast by Type (2027-2032)
- Figure 89. Global Ultra Low-K Film Revenue Market Share Forecast by Type (2027-2032)
- Figure 90. Global Ultra Low-K Film Sales Market Share Forecast by Application (2027-2032)
- Figure 91. Global Ultra Low-K Film Revenue Market Share Forecast by Application (2027-2032)

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