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Global Electronic Grade Ultra-thin Light Shielding Film Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electronic Grade Ultra-thin Light Shielding Film market size is expected to reach $ 168 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of electronic grade ultra-thin light shielding film is estimated at approximately 4.46 million square meters. The mainstream manufacturer-side average selling price is about US$22 per square meter, and the gross margin of major manufacturers is generally around 35%?52%.

Electronic grade ultra-thin light shielding film is a thin black functional film material used for internal light shielding and stray light control in electronic optical modules. It is not a conventional black film, but a precision light shielding film designed for high-end electronic optical applications such as imaging, camera modules, projection optics and optical sensing. The product is typically based on PET, PI or composite film substrates, and achieves high light shielding, low reflection, low gloss, thin profile and precision die-cutting performance through highly dispersed black coatings, low-reflection matte surfaces, ultra-black light absorption layers or composite structures. It can suppress light leakage, stray light, reflected light, glare and ghost images within compact module spaces. Its technical focus lies not only in extremely low light transmittance and stable light blocking capability, but also in the control of surface reflection, particle cleanliness, dimensional stability, heat resistance and antistatic performance, so as to meet the assembly requirements of high-end electronic optical components such as mobile phone cameras, laptop cameras, automotive imaging systems, drone imaging systems, digital cameras, projection optical paths and optical sensors.

The upstream supply chain mainly includes electronic grade PET film, PI film, black

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pigments or carbon black dispersion systems, low-reflection coating resins, pressure-sensitive adhesives, release films, antistatic additives, as well as precision coating, clean slitting and die-cutting equipment. Among these, the base film determines thickness, heat resistance and dimensional stability; the black coating and matte layer determine light shielding rate, reflectance and stray light absorption capability; while the adhesive layer and release material affect lamination, punching, die-cutting and automated assembly yield. Downstream, the product is mainly used in camera modules, lens components, apertures, light shielding rings, spacers, sensor packaging, projection optical components and precision imaging equipment supply chains. Customers usually have high requirements for material consistency, low contamination, low warpage, low outgassing and batch-to-batch stability. Therefore, this product belongs to the category of electronic optical functional film materials, with its core value mainly reflected in high light shielding, low reflection, low contamination, ultra-thin design and compatibility with precision processing.

This report studies the global Electronic Grade Ultra-thin Light Shielding Film production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electronic Grade Ultra-thin Light Shielding 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 Electronic Grade Ultra-thin Light Shielding Film that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electronic Grade Ultra-thin Light Shielding Film total production and demand, 2021-2032, (Sq m)
Global Electronic Grade Ultra-thin Light Shielding Film total production value, 2021-2032, (USD Million)
Global Electronic Grade Ultra-thin Light Shielding Film production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Sq m), (based on production site)
Global Electronic Grade Ultra-thin Light Shielding Film consumption by region & country, CAGR, 2021-2032 & (Sq m)
U.S. VS China: Electronic Grade Ultra-thin Light Shielding Film domestic production, consumption, key domestic manufacturers and share
Global Electronic Grade Ultra-thin Light Shielding Film production by manufacturer,

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production, price, value and market share 2021-2026, (USD Million) & (Sq m)
Global Electronic Grade Ultra-thin Light Shielding Film production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)
Global Electronic Grade Ultra-thin Light Shielding Film production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

This report profiles key players in the global Electronic Grade Ultra-thin Light Shielding 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 Daicel, KIMOTO, SOMAR, Toray Industries, Shibuya Optical, Acktar, GCSOL Tech, Shenzhen Horae New Material, Sichuan EM 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 Electronic Grade Ultra-thin Light Shielding 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 Electronic Grade Ultra-thin Light Shielding Film Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Global Electronic Grade Ultra-thin Light Shielding Film Market, Segmentation by Type:

PET-based Light Shielding Film

PI-based Light Shielding Film

Composite Substrate Light Shielding Film

Global Electronic Grade Ultra-thin Light Shielding Film Market, Segmentation by Coating Structure:

Single-Layer Black Coating

Composite Black Coating

Global Electronic Grade Ultra-thin Light Shielding Film Market, Segmentation by Application:

Mobile Camera

Computer Camera

Automotive Imaging

Drone Imaging

Optical Sensing

Other

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Companies Profiled:

Daicel

KIMOTO

SOMAR

Toray Industries

Shibuya Optical

Acktar

GCSOL Tech

Shenzhen Horae New Material

Sichuan EM Technology

Key Questions Answered:
1. How big is the global Electronic Grade Ultra-thin Light Shielding Film market?
2. What is the demand of the global Electronic Grade Ultra-thin Light Shielding Film market?
3. What is the year over year growth of the global Electronic Grade Ultra-thin Light Shielding Film market?
4. What is the production and production value of the global Electronic Grade Ultra-thin Light Shielding Film market?
5. Who are the key producers in the global Electronic Grade Ultra-thin Light Shielding Film market?
6. What are the growth factors driving the market demand?

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info@marketpublishers.com

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