

Global Low-Carbon PV Encapsulation Film Market Growth 2026-2032

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Abstracts

The global Low-Carbon PV Encapsulation Film market size is predicted to grow from US\$ 1497 million in 2025 to US\$ 3374 million in 2032; it is expected to grow at a CAGR of 12.4% from 2026 to 2032.

In 2025, the global production of low-carbon PV encapsulant film was approximately 900 million square meters, with an average selling price of approximately US\$1.7 per square meter, a gross profit margin of approximately 35%, and a single production line capacity of approximately 20 million square meters per year. Low-carbon PV encapsulant film refers to PV module encapsulation materials that, while maintaining or even improving the performance of traditional PV encapsulant films (such as high light transmittance, strong adhesion, and anti-PID performance), significantly reduce their carbon footprint throughout their entire lifecycle by using green raw materials, clean energy production, and efficient processes. It is a crucial link in the PV industry chain's move towards 'green manufacturing' and achieving 'low-carbon throughout the entire lifecycle.' The upstream supply chain of low-carbon PV encapsulant film revolves around polymer materials such as POE/EPE and anti-aging additives, relying on petrochemical companies and specialty chemical suppliers. The midstream involves precision co-extrusion, casting, and curing processes to form thin film products, requiring strict cleanliness and process control. The downstream directly connects with PV module manufacturers, used to encapsulate solar cells to form a protective structural layer. The demand stems from the continuous expansion of photovoltaic power generation capacity driven by the global energy transition, exhibiting a dual-driven characteristic of 'technological upgrading' and 'capacity expansion'.

Key market drivers for low-carbon PV encapsulant film: 1. Global carbon neutrality regulations and trade barriers: Policies such as the EU's 'Carbon Border Adjustment

Mechanism' and the US 'Reduce Inflation Act' incorporate product carbon footprint into costs, directly driving rigid demand for low-carbon PV products. 2. Downstream procurement requirements for 'zero-carbon modules': International energy companies and large utility companies explicitly require modules to provide full life-cycle carbon footprint certification in their procurement, making low-carbon encapsulant films a core technological path for modules to meet this requirement. 3. The PV industry's own pursuit of sustainable development: To solidify its pure green energy image, leading PV companies are actively building differentiated competitive advantages and enhancing brand value through supply chain decarbonization. 4. Technological maturity and cost optimization: Large-scale production via bio-based and other pathways has gradually narrowed the cost premium of low-carbon encapsulant films, making commercial promotion economically feasible.

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

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

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

This report presents a comprehensive overview, market shares, and growth

opportunities of Low-Carbon PV Encapsulation Film market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Bio-based Film

Green Energy Production Film

Process-optimized Low-carbon Film

Segmentation by Basic Chemical Materials:

Low-carbon POE Film

Low-carbon EPE Film

Low-carbon EVA Film

Segmentation by Application:

Single-glass Module

Double-glass Module

Others

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.

Hangzhou First Applied Material Co., Ltd

Jiangsu Sveck Photovoltaic Technology Co., Ltd.

Shanghai HIUV New Materials Co., Ltd

Suzhou Saintyear Photovoltaic Technology Co., Ltd

Changzhou Betterial Film Technology Co., Ltd.

Guangzhou Lushan New Materials Co., Ltd

Mingguan New Materials Co., Ltd.

Hangzhou Xiangbang Technology Co., Ltd.

Jiangxi Weike New Material Technology Co., Ltd.

Suzhou Yisheng Solar Material Co., Ltd.

Guangdong Baojun New Material Technology Co., Ltd.

Changshu Tegu New Material Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Low-Carbon PV Encapsulation Film market?

What factors are driving Low-Carbon PV Encapsulation Film market growth, globally and by region?

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

How do Low-Carbon PV Encapsulation Film market opportunities vary by end market size?

How does Low-Carbon PV Encapsulation Film break out by Type, by Application?

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