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Global Light-conversion Agricultural Film Market Growth 2026-2032

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Abstracts

The global Light-conversion Agricultural Film market size is predicted to grow from US$ 594 million in 2025 to US$ 797 million in 2032; it is expected to grow at a CAGR of 4.1% from 2026 to 2032.

Light-conversion agricultural film is a high-tech functional plastic film designed to enhance crop growth by altering the spectral composition of incident sunlight. The core mechanism involves incorporating specific light-conversion agents—typically organic fluorescent dyes or rare-earth luminescent materials—into the film matrix. This film can absorb ultraviolet (UV) or green light, which are less efficient for photosynthesis, and re-emit them as high-energy red-orange or blue-violet light. This "spectral tuning" significantly boosts photosynthetic efficiency, shortens maturation cycles, and improves both crop yield and quality. By optimizing the light environment within greenhouses, these films act as a "photographic fertilizer," playing a crucial role in modern precision agriculture. In 2025, global Light-conversion agricultural filmproduction reached approximately 405,000 MT, average price was US$1,500/Ton, with gross margin 20%.

United States market for Light-conversion Agricultural Film is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Light-conversion Agricultural Film is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Light-conversion Agricultural Film is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Light-conversion Agricultural Film players cover Plastika Kritis, Armando

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Alvarez, RKW Group, Barbier Group, Gansu Fuyu, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Light-conversion Agricultural 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 Light-conversion Agricultural Film.

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

Market Segmentation

Segmentation by Type:

Red-shifting Film

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Blue-shifting Film

Segmentation by Structure:

Multi-layer

Single-layer

Segmentation by Thickness:

<80 ?m

80–120 ?m

120–150 ?m

150–200 ?m

200 ?m

Segmentation by Application:

Vegetables

Fruits

Other

This report also splits the market by region:

Americas

United States

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- Canada
- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel

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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.

Plastika Kritis

Armando Alvarez

RKW Group

Barbier Group

Gansu Fuyu

Huadun

New Three

Qingtian

Berry Global

Mingri

Yinfeng

Key Questions Addressed in this Report

What is the 10-year outlook for the global Light-conversion Agricultural Film market?

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What factors are driving Light-conversion Agricultural Film market growth, globally and by region?

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

How do Light-conversion Agricultural Film market opportunities vary by end market size?

How does Light-conversion Agricultural Film break out by Type, by Application?

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