

Global Plastic Scintillator Material Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Plastic Scintillator Material market size is expected to reach \$ 437 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

In 2025, global Plastic Scintillator Material production reached approximately 150 tons, with an average global market price of around 1,850 USD/kg.

Plastic Scintillator Material is a class of organic polymeric scintillation materials that absorbs ionizing radiation energy including charged particles and gamma rays, converts the absorbed energy into detectable ultraviolet or visible light photons through molecular excitation and relaxation processes, and is paired with photoelectric conversion devices to realize radiation signal measurement and analysis, featuring fast response, good processability and customizable shaping.

The global demand for Plastic Scintillator Material is driven by the expansion of high-energy physics experiments, nuclear power safety monitoring, homeland security inspection and clinical radiation dosimetry markets, with growing preference for its lightweight, machinable and large-area forming advantages over inorganic scintillators; business opportunities lie in the development of high-light-yield and radiation-resistant modified products, customized fiber/film scintillator solutions, and mass production for low-cost security and industrial detection segments, while emerging fields such as portable radiation detectors and wearable dosimeters open up incremental market space for high-performance plastic scintillator materials.

This report studies the global Plastic Scintillator Material production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Plastic Scintillator Material 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 Plastic Scintillator Material that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Plastic Scintillator Material total production and demand, 2021-2032, (Tons)

Global Plastic Scintillator Material total production value, 2021-2032, (USD Million)

Global Plastic Scintillator Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Plastic Scintillator Material consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Plastic Scintillator Material domestic production, consumption, key domestic manufacturers and share

Global Plastic Scintillator Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Plastic Scintillator Material production by Chemical Composition, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Plastic Scintillator Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Plastic Scintillator Material 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 Luxium Solutions, Radiation Monitoring Devices (RMD), Amcrys, Eljen Technology, Alpha Spectra, Rexion Components, Shalom EO, Blueshift Optics, Epic Crystal, OST Photonics, 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 Plastic Scintillator Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by

manufacturer, by Chemical Composition, 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 Plastic Scintillator Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Plastic Scintillator Material Market, Segmentation by Chemical Composition:

Pure Polymeric Scintillator Materials

Doped Polymeric Scintillator Materials

Copolymerized Scintillator Materials

Global Plastic Scintillator Material Market, Segmentation by Physical Form:

Bulk Solid Scintillator Materials

Film Scintillator Materials

Fiber Scintillator Materials

Global Plastic Scintillator Material Market, Segmentation by Luminescence Decay Time:

Ultrafast Decay Scintillator Materials

Fast Decay Scintillator Materials

Standard Decay Scintillator Materials

Global Plastic Scintillator Material Market, Segmentation by Application:

Radiation Detection

Non-Destructive Testing

Nuclear Industry Monitoring

Others

Companies Profiled:

Luxium Solutions

Radiation Monitoring Devices (RMD)

Amcrys

Eljen Technology

Alpha Spectra

Rexon Components

Shalom EO

Blueshift Optics

Epic Crystal

OST Photonics

NUVIA

Kuraray

Key Questions Answered:

1. How big is the global Plastic Scintillator Material market?
2. What is the demand of the global Plastic Scintillator Material market?
3. What is the year over year growth of the global Plastic Scintillator Material market?
4. What is the production and production value of the global Plastic Scintillator Material market?
5. Who are the key producers in the global Plastic Scintillator Material market?
6. What are the growth factors driving the market demand?

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