

# Global Plastic Scintillator Material Market Growth 2026-2032

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## Abstracts

The global Plastic Scintillator Material market size is predicted to grow from US\$ 271 million in 2025 to US\$ 425 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Plastic Scintillator Material Industry Forecast" looks at past sales and reviews total world Plastic Scintillator

Material sales in 2025, providing a comprehensive analysis by region and market sector of projected Plastic Scintillator Material sales for 2026 through 2032. With Plastic Scintillator Material sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Plastic Scintillator Material industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Plastic Scintillator Material and breaks down the forecast by Chemical Composition, 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 Plastic Scintillator Material.

This report presents a comprehensive overview, market shares, and growth opportunities of Plastic Scintillator Material market by product type, application, key manufacturers and key regions and countries.

Segmentation by Chemical Composition:

Pure Polymeric Scintillator Materials

Doped Polymeric Scintillator Materials

Copolymerized Scintillator Materials

Segmentation by Physical Form:

Bulk Solid Scintillator Materials

Film Scintillator Materials

Fiber Scintillator Materials

Segmentation by Luminescence Decay Time:

Ultrafast Decay Scintillator Materials

Fast Decay Scintillator Materials

Standard Decay Scintillator Materials

Segmentation by Application:

Radiation Detection

Non-Destructive Testing

Nuclear Industry Monitoring

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.

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 Addressed in this Report

What is the 10-year outlook for the global Plastic Scintillator Material market?

What factors are driving Plastic Scintillator Material market growth, globally and by region?

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

How do Plastic Scintillator Material market opportunities vary by end market size?

How does Plastic Scintillator Material break out by Chemical Composition, by Application?

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