+357 96 030922
info@marketpublishers.com

Global Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/G889D451DC5DEN.html
Date: August 2026
Pages: 134
Price: US$ 3,480.00 (Single User License)
ID: G889D451DC5DEN

Abstracts

According to our (Global Info Research) latest study, the global Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound market size was valued at US$ 491 million in 2025 and is forecast to a readjusted size of US$ 701 million by 2032 with a CAGR of 5.3% during review period.

Low smoke halogen-free flame retardant polyolefin sheathing compound is a functional polymer composite material specifically designed for the manufacture of outer and inner sheaths for wires and cables. This material utilizes polyolefin resins?such as polyethylene (PE), polypropylene (PP), ethylene-vinyl acetate copolymer (EVA), or polyolefin elastomer (POE)?as its matrix. It is produced through a process of compounding and granulation involving the addition of halogen-free flame retardants (such as aluminum hydroxide [ATH] and magnesium hydroxide [MDH]), as well as various additives including antioxidants, lubricants, and stabilizers. Its key characteristics include low smoke emission during combustion; the absence of halogen elements such as chlorine and bromine, thereby preventing the generation of large quantities of toxic or corrosive gases; and the possession of excellent flame-retardant, mechanical, and electrical insulation properties.

The upstream segment of the industry chain primarily comprises suppliers of base resins?such as PE, EVA, PP, and POE?as well as manufacturers of additives, including halogen-free flame retardants (ATH and MDH), antioxidants, lubricants, coupling agents, and stabilizers. The midstream segment constitutes the manufacturing stage for the low-smoke, halogen-free polyolefin sheathing compounds themselves; here,

+357 96 030922
info@marketpublishers.com

processes involving formula design, compounding modification, and twin-screw extrusion granulation are employed to produce sheathing products that meet diverse temperature resistance grades and flame-retardancy standards. The downstream segment finds primary application in fields such as power cables, communication optical cables, rail transit cables, marine cables, nuclear power cables, data center cabling, high-voltage wiring harnesses for new energy vehicles, photovoltaic cables, wind power cables, and building wiring systems. Ultimately, these products serve industries including electric power and energy, communication networks, rail transit, new energy, industrial manufacturing, smart buildings, and data centers.

In 2025, the global sales volume of low smoke halogen-free flame retardant polyolefin sheathing compounds is projected to reach 180,000 tons, with a production capacity of approximately 290,000 tons. The average selling price is estimated at $2,650 per ton, with an average gross margin ranging from 18% to 28%.

In terms of demand structure, power cables and communication cables constitute the largest application sectors for low-smoke, halogen-free, flame-retardant polyolefin sheathing compounds, accounting for over 60% of total demand. In recent years, rail transit, data centers, new energy vehicles, photovoltaic power stations, wind power projects, and energy storage systems have emerged as the fastest-growing sub-sectors within the market. As the global installed capacity for new energy continues to expand, the demand for highly flame-retardant and weather-resistant LSZH sheathing compounds for photovoltaic and energy storage cables is growing rapidly. Concurrently, the construction of data centers is driving significant demand for low-smoke, halogen-free communication cables, while high-voltage wiring harnesses for new energy vehicles are fueling the rapid expansion of the market for high-temperature-resistant, lightweight, halogen-free sheathing compounds.

Currently, mainstream products in the industry utilize PE, EVA, and POE as base resins, combined with halogen-free flame retardants?such as aluminum hydroxide (ATH) and magnesium hydroxide (MDH)?to form highly filled flame-retardant systems. The primary direction of technological development focuses on enhancing flame-retardant efficiency, reducing filler content, and improving mechanical properties. The new generation of products leverages technologies such as silane grafting, nanomaterial reinforcement, phosphorus-nitrogen synergistic flame retardation, and elastomer toughening to enhance material flexibility, abrasion resistance, and high-temperature performance. Meanwhile, high-temperature-resistant sheathing compounds suitable for long-term operation in environments exceeding 125?C?as well as high-end products meeting standards for rail transit (EN 45545), marine applications (IMO), and

+357 96 030922
info@marketpublishers.com

high-voltage wiring harnesses for new energy vehicles?are becoming key priorities in market R&D.

This report is a detailed and comprehensive analysis for global Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound

To forecast future growth in each product and end-use market

+357 96 030922
info@marketpublishers.com

To assess competitive factors affecting the marketplace

This report profiles key players in the global Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Borealis, Borouge, Avient, Teknor Apex, Hexpol Compounding, SABIC, Mitsubishi Chemical, Sumitomo Chemical, Dow, Benvic Group, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Thermoplastic

Cross-linked

Market segment by Temperature Rating

70?C

90?C

105?C

125?

+357 96 030922
info@marketpublishers.com

Market segment by Base Resin

- Polyethylene Type
- Polypropylene Type
- Ethylene-Vinyl Acetate Copolymer Type
- Others

Market segment by Application

- Power and Communication
- Rail Transit
- Vessels
- New Energy
- Data Centers
- Industrial Electronics and Electrical
- Others

Major players covered

- Borealis
- Borouge
- Avient
- Teknor Apex
- Hexpol Compounding

+357 96 030922
info@marketpublishers.com

SABIC

Mitsubishi Chemical

Sumitomo Chemical

Dow

Benvic Group

Polymer Asia

Condor Compounds GmbH

Wanma Polymer

Zhongli Group

Hangzhou Gaoxin

Kingfa Technology

Jushi Chemical

Hebei Shanghua New Materials

Angaorui New Materials

Taihu Yuanda

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

+357 96 030922
info@marketpublishers.com

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound, with price, sales quantity, revenue, and global market share of Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound from 2021 to 2026.

Chapter 3, the Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound.

+357 96 030922
info@marketpublishers.com

Chapter 14 and 15, to describe Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound sales channel, distributors, customers, research findings and conclusion.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

2 MANUFACTURERS PROFILES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

3 COMPETITIVE ENVIRONMENT: LOW SMOKE HALOGEN-FREE FLAME RETARDANT POLYOLEFIN SHEATHING COMPOUND BY MANUFACTURER

+357 96 030922
info@marketpublishers.com

4 CONSUMPTION ANALYSIS BY REGION

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

8 EUROPE

9 ASIA-PACIFIC

10 SOUTH AMERICA

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Low Smoke Halogen-Free Flame Retardant Polyolefin Sheathing Compound Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: https://marketpublishers.com/r/G889D451DC5DEN.html

Price: US$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G889D451DC5DEN.html