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Plastic Antioxidants Market Forecasts to 2030 – Global Analysis By Type (Primary Antioxidants, Secondary Antioxidants and Other Types), Polymer Type, Form, Functionality, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Plastic Antioxidants Market is accounted for $5.11 billion in 2024 and is expected to reach $7.84 billion by 2030 growing at a CAGR of 7.4% during the forecast period. Plastic antioxidants are additives used in polymers to prevent the degradation of plastics caused by oxidative reactions. These antioxidants help extend the lifespan of plastic products by inhibiting the breakdown of polymer chains when exposed to heat, light, or air. They work by neutralizing free radicals and other reactive species that can damage the material. These additives are commonly used in the production of various plastic products, such as packaging, automotive parts, and electrical components, to improve durability and performance.

According to the Federation of Indian Chambers of Commerce & Industry, in 2013, the global average demand for plastics in the agricultural industry was 8%, and in India, it was 2%.

Market Dynamics:

Driver:

Rising awareness of product durability

The rising awareness of product durability is driving the demand for plastic antioxidants in the market. Consumers and manufacturers are increasingly focused on enhancing

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the longevity and performance of plastic products, particularly in industries like automotive, packaging, and electronics. As sustainability becomes a priority, antioxidants help reduce plastic degradation, improve product lifespan, and minimize environmental impact, making them essential for ensuring long-lasting, high-quality plastic materials in various applications.

Restraint:

Competition from alternatives

Competition from alternative materials in the market poses significant challenges. As industries explore biodegradable or eco-friendly packaging options, demand for traditional plastic antioxidants may decrease. This shift towards sustainable alternatives, such as natural antioxidants or plant-based additives, can reduce the market share for conventional plastic antioxidants. Moreover, the growing environmental concerns over plastic waste may further push manufacturers to adopt greener solutions, ultimately affecting the profitability and growth of companies reliant on traditional plastic antioxidant products.

Opportunity:

Expansion of the packaging industry

The expansion of the packaging industry in the market is largely fueled by the rising demand for packaging materials that offer enhanced durability, longer shelf life, and protection against environmental factors. Industries such as food, beverages, and pharmaceuticals require plastic solutions that prevent oxidation, preserve product quality, and maintain freshness. Plastic antioxidants play a vital role in stabilizing these materials, improving their performance, and ensuring sustainability. As packaging demands grow, so does the need for effective antioxidants in plastic applications.

Threat:

Fluctuating raw material prices

Fluctuating raw material prices in the market can lead to significant production challenges. As the cost of key ingredients, such as polymer stabilizers and chemical compounds, varies, manufacturers may face unpredictable profit margins. These price fluctuations can hinder long-term planning and force companies to adjust prices,

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potentially impacting their competitiveness. Additionally, higher raw material costs may reduce consumer demand, as price-sensitive industries seek cost-effective alternatives, thereby slowing down market growth and innovation.

Covid-19 Impact:

The COVID-19 pandemic disrupted the plastic antioxidants market by causing supply chain disruptions, reducing manufacturing output, and shifting demand patterns. While the automotive and construction sectors saw a decline in production, the packaging industry experienced a surge due to increased demand for single-use plastics and protective packaging. The market also faced challenges in raw material availability and transportation. However, post-pandemic recovery, coupled with growing environmental concerns, is expected to drive innovation and demand for sustainable plastic antioxidants.

The polyvinyl chloride (PVC) segment is expected to be the largest market share during the forecast period

The polyvinyl chloride (PVC) segment is expected to account for the largest market share during the forecast period due to heat, light, and oxygen exposure. To enhance the stability and lifespan of PVC products, antioxidants are added to prevent oxidative damage, discoloration, and brittleness. These antioxidants help maintain the quality and performance of PVC in various applications, such as construction, and medical industries. The growing demand for durable and long-lasting PVC products drives the need for effective antioxidant solutions.

The automotive segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the automotive segment is predicted to witness the highest growth rate. Plastics used in automotive parts, such as bumpers, dashboards, and interior trims, require antioxidants to prevent degradation caused by heat, UV radiation, and oxidative stress. These additives ensure the longevity, strength, and aesthetic quality of automotive plastics, even under extreme conditions. As automotive production expands and evolves, the need for reliable plastic antioxidants to enhance product durability continues to rise.

Region with largest share:

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During the forecast period, the North America region is expected to hold the largest market share. North American manufacturers seek high-performance antioxidants to enhance the durability and longevity of plastic products, especially in extreme weather conditions. With a strong focus on sustainability and innovation, companies are incorporating advanced antioxidant solutions to meet environmental and regulatory standards. The region's robust industrial base and emphasis on product quality further support the expansion of the market.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR. The region's rapid industrialization has spurred the growth of manufacturing sectors, thereby increasing the demand for plastic products and, consequently, antioxidants. Additionally, increased urbanization in countries like China, India, and Southeast Asia has driven demand for plastic products in infrastructure development, housing, transportation, and consumer items, thereby increasing the need for antioxidants.

Key players in the market

Some of the key players in Plastic Antioxidants market include BASF SE, Clariant AG, Lanxess AG, Sumitomo Chemical Co., Ltd., SABIC, Eastman Chemical Company, Solvay S.A., AkzoNobel N.V., Addivant, Perstorp Holding AB, Evonik Industries AG, Lubrizol Corporation, Huntsman Corporation, Arkema S.A., Milliken & Company, Dow Inc., LG Chem Ltd. and Asahi Kasei Corporation.

Key Developments:

In September 2024, Asahi Kasei, a Japanese technology company, has signed a memorandum of understanding (MOU) with Aquafil S.p.A., an Italian manufacturer of polyamide 6 (PA6), to develop a novel material for 3D printing applications. The collaboration aims to combine Aquafil's ECONYL® Polymer, a chemically recycled PA6, with Asahi Kasei's cellulose nanofiber (CNF)..

In May 2024, Dow and Freepoint Eco-Systems Supply & Trading LLC announced an agreement for an estimated 65,000 metric tons per year of certified-circular, plastic waste-derived pyrolysis oil to produce new, virgin-grade equivalent plastics in Dow's U.S. Gulf Coast operations. Together, Dow and Freepoint Eco-Systems are building a recycling system that converts plastic waste into valuable materials and fosters a

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circular economy for plastics in North America.

Types Covered:

- Primary Antioxidants
- Secondary Antioxidants
- Other Types

Polymer Types Covered:

- Polyolefins (PE, PP)
- Polyvinyl Chloride (PVC)
- Polystyrene (PS)
- Polyesters (PET, PBT)
- Polyamides (Nylon)

Forms Covered:

- Liquid
- Solid
- Masterbatches
- Powdered

Functionalities Covered:

- Heat Stabilizers

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UV Stabilizers

Oxidation Stabilizers

End Users Covered:

Packaging

Automotive

Textile

Consumer Electronics

Construction

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

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- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE
- Qatar

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South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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