

# **Plastic Antioxidants Market: Segmented by Type (Phenols, Amines, Phosphites, Organic Sulfides, Antioxidant Blends, Others); By Form (Solid, Liquid); By Polymer Resin (Polyethylene, Polypropylene, Polyvinyl Chloride, Acrylonitrile Butadiene Styrene, Polystyrene, Others) and Region – Global Analysis of Market Size, Share & Trends for 2019–2020 and Forecasts to 2030**

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## **Abstracts**

176+ Pages Research Report Plastic Antioxidants market to surpass USD 3.56 billion by 2030 from USD 2.00 billion in 2020 at a CAGR of 5.95% in the coming years, i.e., 2021-30.

### **Product Overview**

Antioxidants are stabilizing substances that react with reactive species and decompose them, slowing the oxidation process. They prevent thermally induced oxidation of plastics and other materials. Primary antioxidants and secondary antioxidants are two types of antioxidants utilized in polymers. Varying antioxidants have different levels of reactivity as a function of temperature, and they also react with and decompose the various radical intermediates in the oxidation process, giving polymers thermal stability.

### **Market Highlights**

Plastic Antioxidants market is expected to project a notable CAGR of 5.95% in 2030. One of the main reasons driving the market's growth is the increasing demand for plastic antioxidants for polymer resins like PE, PP, PVC, PS, ABS, and others in sectors like automotive, consumer goods, building & construction, and medical & healthcare.

Plastic antioxidants will be driven by factors such as plastics replacing traditional materials, rising demand in the medical industry, and increased urbanization in developing countries.

#### Recent highlights in the Plastic Antioxidants Market

In January 2019, at its Caojing location in Shanghai, China, BASF SE established a new antioxidant production factory. The facility is expected to have a capacity of 42,000 tonnes per year. It is expected to create phenolics, amines, phosphites, and mixes, among other antioxidants.

#### Plastic Antioxidants Market: Segments

segment to grow with the highest CAGR during 2020-30

Plastic Antioxidants Market is segmented by Type into Phenols, Amines, Phosphites, Organic Sulfides, Antioxidant Blends, and Others. Among these, the Phenols segment is expected to dominate the market in the forecast period. Phenols are known to slow the oxidation of organic materials by transferring hydrogen from their OH group to the chain that carries ROO radicals. However, the antioxidant capacity of phenols is greatly reduced prior to the transfer of hydrogen atoms by the hydrogen that absorbs solvents. Once the hydrogen bond is transferred, phenol is a strong antioxidant. It is one among the most common antioxidants used in the manufacturing of plastics. As a result, phenolic antioxidants are the most often utilized plastic additive.

Polyethylene segment to grow with the highest CAGR during 2020-30

Plastic Antioxidants Market is segmented by End-user into Polyethylene, Polypropylene, Polyvinyl Chloride, Acrylonitrile Butadiene Styrene, Polystyrene, and Others. Among these, the Polyethylene segment will dominate the market in the forecast period.

Polyethylene is a lightweight, long-lasting plastic that is manufactured in excess of 100 million tonnes per year due to its wide range of applications. It is utilized in a variety of sectors, including packaging, automotive, electronics, and others, as films, tubes, plastic components, laminates, and other materials. In comparison to other markets, the packaging is the largest consumer of polyethylene, and its varieties, such as HDPE, LDPE, and LLDPE, account for about 35% of the market.

#### Market Dynamics

##### Drivers

Plastics gaining preference over conventional materials

Antioxidants may be located in a range of polymers, including PE, PP, and PVC.

Packaging, building and construction, and automobile sectors all employ these polymers. Plastics outperform traditional materials like metals, glass, paper, and

ceramics in terms of mechanical and electrical characteristics, abrasion resistance, and chemical resistance. Plastics have replaced metals, glass, paper, and ceramics in the packaging, building & construction, and automotive sectors due to continuous innovation and the demand for more lightweight materials in various industries. The market for plastic antioxidants is projected to grow as a result of this.

## Restraint

### Health Effects of Synthetic Plastic Antioxidants

Plastics are coated with antioxidants to preserve their structure and make them more thermally stable. Synthetic antioxidants, such as 2,6 di-tert-butyl-p-cresol (BHT), which is commonly used in polymers like PP and HDPE, however, have an adverse effect on human health. According to research, BHT produces mutations, cancers, and endocrine impacts in test animals. In humans, it also produces allergic reactions. Plastics containing antioxidants are used in a variety of home appliances, automobile parts, food packaging, and construction materials. These hazardous substances move from the plastic and into the human body. The demand for phenolic antioxidants is declining as a result of their negative health consequences.

## Plastic Antioxidants Market: Key Players

A.Schulman

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

Ampacet Corporation

BASF SA

Dover Chemical Corporation

Clariant

Emerald Performance Materials

Evonik Industries

3V Sigma S.P.A

Adeka Corporation

Lanxess

Everspring Chemical Co., Ltd.

Krishna Antioxidants Pvt. Ltd.

## Plastic Antioxidants Market: Regions

Plastic Antioxidants Market is segmented based on regional analysis into five major

regions. These include North America, Latin America, Europe, Asia Pacific, and the Middle East, and Africa. Plastic Antioxidants market in Asia Pacific held the largest market share in the year 2019, and it is expected to grow at the fastest rate during the forecast period. Building and construction, packaging, automotive, and other sectors in Asia Pacific are developing as a result of rising disposable income in countries like China and India, which is boosting the plastics and, thus, plastic antioxidants market. A rising population and economic growth define this region. The region's growing population, along with rising construction spending in China, India, and Indonesia's expanding markets, is expected to make it an attractive location for the plastics industry. As a result, the plastic antioxidants business is projected to grow rapidly in the near future.

Plastic Antioxidants Market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil, and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – China, Japan, Australia, and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa, and Rest of MENA

Plastic Antioxidants Market report also contains analysis on:

Plastic Antioxidants Segments:

By Type

Phenols

Amines

Phosphites

Organic Sulfides

Antioxidant Blends

Others

By Form

Solid

Liquid

By Polymer Resin

Polyethylene

Polypropylene

Polyvinyl Chloride  
Acrylonitrile Butadiene Styrene  
Polystyrene  
Others  
Plastic Antioxidants Market Dynamics  
Plastic Antioxidants Market Size  
Supply & Demand  
Current Market Trends/Issues/Challenges  
Competition & Companies Involved in the Market  
Value Chain of the Market  
Market Drivers and Restraints

Plastic Antioxidants Market Report Scope and Segmentation  
Report Attribute Details  
Market size value in 2021 USD 2.12 billion  
Revenue forecast in 2030 USD 3.56 billion  
Growth Rate CAGR of 5.95% from 2021 to 2030  
Base year for estimation 2020  
Quantitative units Revenue in USD billion and CAGR from 2021 to 2030  
Report coverage Revenue forecast, company ranking, competitive landscape, growth factors, and trends  
Segments covered Type, Form, Polymer Resin, and Region  
Regional scope North America; Europe; Asia Pacific; Latin America; Middle East & Africa (MEA)  
Key companies profiled A.Schulman, Ampacet Corporation, BASF SA, Dover Chemical, Corporation, Clariant, Emerald Performance Materials, Evonik Industries, 3V Sigma S.P.A, Adeka Corporation, Lanxess, Everspring Chemical Co., Ltd., Krishna Antioxidants Pvt. Ltd. and Other Prominent Players.

Frequently Asked Questions  
How big is the Plastic Antioxidants market?  
What is the Plastic Antioxidants market growth?  
Which segment accounted for the largest Plastic Antioxidants market share?  
Who are the key players in the Plastic Antioxidants market?  
What are the factors driving the Plastic Antioxidants market?

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13.12. Krishna Antioxidants Pvt. Ltd.

Consultant Recommendation

**\*\*The above-given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.**

## I would like to order

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