

# **Antimicrobial Plastic Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type (Commodity Plastics, Engineering Plastics, High-performance Plastics, Others), By Additive (Inorganic, Organic), By End Use (Healthcare, Packaging, Automotive, Construction, Food & Beverage, Others), By Region and Competition**

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## **Abstracts**

The Global Antimicrobial Plastic Market is anticipated to expand significantly through 2028 due to the growing demand from the healthcare sector. In 2020, India's healthcare sector was worth about USD 280 billion.

Antimicrobial Plastic is widely used as a replacement for conventional material in the production of medical equipment such as anesthesia machines and ventilators due to their properties. Moreover, the rising utilization of antimicrobial plastic in the automotive and construction sector has led to the growth of global antimicrobial plastic market in the projected period.

### **Growing Adoption in the Healthcare Sector**

Antimicrobial plastics are mostly used in the healthcare sector, as antimicrobial plastic provides a number of benefits over traditional materials, including sterility, cleanliness, simplicity of use, convenience, and cheap cost. The demand for the prevention of microbial infections is being driven by healthcare-associated infections (HAIs), complex epidemiological scenarios, nosocomial infections, microbial contamination, and infection

hazards in hospitals and dental equipment. Numerous prospects for the development of antimicrobial treatments were presented by the requirement for recycling disposable medical equipment. Antimicrobial plastics are generally utilized for items like cubicle curtains, nurse call systems, beds, handrails, doorknobs, flooring, pull cords, and case note holders in nursing homes and hospitals.

For instance, in 2022, University of California Los Angeles researchers created a zwitterion polymer coating for in-dwelling medical devices, such as urinary catheters, that prevents microbes from adhering and creating troublesome biofilms.

Therefore, an increase in healthcare facilities and advancement in technology is anticipated to boost market growth in the upcoming years.

### Rising Demand from End-Use Industries

Antimicrobial plastic is used as packaging material in the food and beverage industry as it doesn't include preservatives, requires no processing, and inhibits the growth of microorganisms, hence prolonging the shelf life of perishable goods. In recent years, there has been a rise in the usage of antimicrobial plastic packaging due to rising consumer health awareness and the desire for products with longer shelf lives.

In addition, the demand for antimicrobial plastic is increasing in the textile sector. Antimicrobial plastic is very helpful as it prevents the generation of odor-causing bacteria in the textile. Along with this, antimicrobial plastic is used in the construction sector as these plastics provide protection from fungus and bacteria to roofs and walls.

For Instance, in 2020, Symphony Environmental Technologies got the US Food and Drug Administration (FDA) approval for antimicrobial food packaging.

In 2019, Microban International partnered with Panaria Group to introduce antimicrobial protection in their products.

Thus, increasing demand from various end-use industries will lead to the growth of the market in the forecast period.

Commodity Plastics will be the Key Type.

Commodity Plastic is used in various applications, including packaging, food and beverage, consumer products, and medicine. Product growth in these end-use sectors

is largely fueled by rising personal hygiene awareness among consumers and shifting lifestyle trends. Due to their high impact strength, chemical resistance, improved biocompatibility, moisture resistance, and a wide variety of applications in many end-use sectors, polypropylene, and polyethylene antimicrobial plastics are primarily driving the need for commodity plastic.

For instance, in 2022, Polygiene acquired SteriTouch to expand the company's antimicrobial additives offerings for plastics, coatings, and paints.

In addition, engineering plastic has better mechanical properties and dimensions and therefore is used in transportation, construction, and electrical and industrial machinery.

Therefore, the aforementioned factors are likely to boost market growth over the projected period.

## Recent Developments

In May 2022, Sanitized AG launched a new product, OX20, which does not contain any biocides and is used on cotton, viscose, or synthetic fibers.

Sanitized Puretec, a textile antimicrobial solution, was introduced by Sanitized AG in November 2021, which is metal-free, non-leaching, and particle-free to prevent the growth of bacteria.

In March 2021, Saniconcentrate, a new additive, was introduced by Parx Materials. This additive creates antimicrobial polymers that can halt the spread of dangerous germs and viruses.

A new patented range of antimicrobial-blocking polymer fusion solutions was introduced by Polyfuzze Graphics Corp in April 2020.

## Market Segmentation

Global Antimicrobial Plastic Market is segmented based on type, additive, end-use, region and competitive landscape. Based on the type, the market is fragmented into commodity plastics, engineering plastics, high-performance plastics, and others. Based on the additive, the market is categorized into inorganic and organic. Based on the end use, the market is segmented into healthcare, packaging, automotive, construction, food

& beverage, and others. Based on region, the market is divided into North America, Europe, Asia Pacific, South America, Middle East & Africa.

### Market Players

BASF SE, Parx Materials N.V., Microban International, Ltd., King Plastic Corporation, Palram Industries Ltd., RTP Company, Inc., Sanitized AG, BioCote Ltd., Milliken & Company, Avient Corporation are some of the key players in the Global Antimicrobial Plastic Market.

### Report Scope:

In this report, Global Antimicrobial Plastic market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

#### Antimicrobial Plastic Market, By Type:

Commodity Plastics

Engineering Plastics

High-performance Plastics

Others

#### Antimicrobial Plastic Market, By Additive:

Inorganic

Organic

#### Antimicrobial Plastic Market, By End Use:

HealthCare

Packaging

Automotive

Construction

Food & Beverage

Others

### Antimicrobial Plastic Market, By Region:

North America

United States

Mexico

Canada

Europe

France

Germany

United Kingdom

Spain

Italy

Asia-Pacific

China

India

South Korea

Japan

Australia

South America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive landscape

Company Profiles: Detailed analysis of the major companies present in Global Antimicrobial Plastic market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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