

Antimicrobial Plastics Market By Additive (Inorganic and, Organic) , By Plastic (Engineering, High-Performance, Others) By End-Use (Healthcare, Packaging, Automotive, Consumer Goods, Building and Construction, And Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The antimicrobial plastics market was valued at \$43.1 billion in 2023, and is projected to reach \$87.4 billion by 2033, growing at a CAGR of 7.4% from 2024 to 2033.

Antimicrobial plastics are engineered materials infused with additives or coatings designed to inhibit the growth of microorganisms. Common antimicrobial agents used in these plastics include silver ions, copper, zinc, and organic compounds like triclosan and quaternary ammonium compounds. These agents disrupt microbial cell functions, leading to their destruction or inhibition of growth. The primary benefits of antimicrobial plastics include reducing the risk of infection, extending the shelf life of products, and maintaining cleanliness. They help in minimizing microbial contamination on surfaces and in products, thereby enhancing safety and hygiene.

Increase in consumer awareness about hygiene and safety, especially in the wake of the COVID-19 pandemic, has fostered the demand for antimicrobial products, which is a key factor driving the growth of the global antimicrobial plastics market. In addition, alarming increase in prevalence of hospital-associated infections has enforced healthcare facilities to adopt antimicrobial plastics for medical devices, equipment, and surfaces to reduce infection rates. A 2018 study published in the Journal of Hospital Infection demonstrated that the use of antimicrobial surfaces in hospital settings could reduce the incidence of hospital-associated infections by up to 30%.

This reduction is significant, given the fact that approximately 1.7 million patients suffer from hospital-associated infections annually in the U.S. alone. Furthermore, the expansion of the global healthcare industry, including hospitals, clinics, and medical device manufacturing, is significantly contributing toward the market growth. Moreover, the food industry is focusing on extending shelf life and ensuring food safety, which has led to the adoption of antimicrobial plastics in packaging materials. A study published in Food Control in 2020—an international journal that focuses on food safety and food quality concerns and preventative control measures that improve public health—states that antimicrobial packaging could extend the shelf life of fresh produce by 25-50%. The study highlighted that antimicrobial films containing silver nanoparticles inhibited bacterial growth, thus preserving food quality for a longer period. However, high cost associated with the incorporation of antimicrobial agents into plastics restrains the market growth. In addition, use of certain antimicrobial agents, such as silver nanoparticles and triclosan, has raised environmental concerns due to their potential toxicity, thus hampering the market growth. On the contrary, the development of eco-friendly and sustainable antimicrobial solutions addresses environmental concerns and attracts environmentally conscious consumers and industries, which is expected to offer lucrative opportunities for the market growth. Moreover, innovations in antimicrobial agents and plastic manufacturing techniques have improved the efficacy and variety of antimicrobial plastics, making them more attractive to various industries.

The global antimicrobial plastics market is segmented into additive, plastic, end use, and region. By additive, the market is classified into inorganic and organic. On the basis of plastic, it is segregated into engineering, high-performance, and others. Depending on end use, it is fragmented into healthcare, packaging, automotive, consumer goods, building & construction, and others. Region wise, it is studied across areas such as North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

By additive, the organic segment is expected to witness rapid growth by 2033.

On the basis of plastic, the engineering plastics segment is anticipated to lead throughout the forecast period.

Depending on end use, healthcare is projected to emerge as a leading segment in the coming years.

Region wise, antimicrobial plastic is likely to gain high prominence in Asia-Pacific.

Competition Analysis

Competitive analysis and profiles of the major players in the global Antimicrobial Plastics Market include INEOS Group, BioCote Limited, Lonza Group, Microban International, RTP Company, LLC, Avient Corporation, BASF SE, Palram Industries Ltd., LyondellBasell Industries Holdings B.V., and DuPont de Nemours, Inc. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to sustain the intense competition and gain strong foothold in the global market.

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SWOT Analysis

Key Market Segments

By Additive

Inorganic and

Organic

By Plastic

Engineering

High-Performance

Others

By End-Use

Healthcare

Packaging

Automotive

Consumer Goods

Building and Construction

And Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

INEOS Group

BioCote Limited

Lonza Group

Microban International

RTP Company, LLC

Avient Corporation

BASF SE

Palram Industries Ltd.

LyondellBasell Industries Holdings B.V.

DuPont de Nemours, Inc.

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