

Antimicrobial Packaging Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031)

> **Industry:** Smart, Active & Intelligent Packaging (Packaging)
> **Source:** https://www.mordorintelligence.com/industry-reports/antimicrobial-packaging-market(https://www.mordorintelligence.com/industry-reports/antimicrobial-packaging-market)
> **Scraped Date:** 2026-09-17

Executive Market Summary

Market Metric	Details
Base Market Size	USD 13.61 billion
Projected Forecast (2031)	USD 13.61 billion
Growth Rate (CAGR)	5.01 %
Largest Market Region	N/A
Fastest-Growing Region	N/A

Market Visualizations & Infographics

! [Major players in Antimicrobial Packaging industry](images/chart_2.png)

! [Antimicrobial Packaging Market (2025 - 2030)](images/chart_3.png)

! [Antimicrobial Packaging Market: Market Share by Material, 2025](images/chart_4.png)

! [Antimicrobial Packaging Market: Market Share by Pack Type, 2025](images/chart_5.png)

! [Antimicrobial Packaging Market CAGR (%), Growth Rate by Region](images/chart_6.png)

! [Antimicrobial Packaging Market](images/chart_7.png)

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! [GPTW](images/chart_19.png)

Comprehensive Research Analysis

Overview Points List Flex 49 Share Feature End

Market Overview

Study Period	2020 - 2031
Market Size (2026)	USD 13.61 Billion
Market Size (2031)	USD 17.38 Billion
Growth Rate (2026 - 2031)	5.01 %
Fastest Growing Market	Asia Pacific

Largest Market | Asia Pacific |
Market Concentration | Medium |
Major Players*Disclaimer: Major Players sorted in no particular order

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Market Overview

Antimicrobial Packaging Market Analysis by Mordor IntelligenceThe Antimicrobial Packaging Market size was valued at USD 12.96 billion in 2025 and estimated to grow from USD 13.61 billion in 2026 to reach USD 17.38 billion by 2031, at a CAGR of 5.01% during the forecast period (2026-2031). Demand is propelled by stricter food-contact regulations, the phase-out of PFAS substances, and corporate sustainability mandates that elevate antimicrobial functionality to a mainstream packaging requirement. Regulatory momentum has sparked a pivot toward bio-based antimicrobial agents that balance microbial efficacy with environmental credentials. Asia-Pacific remains the fulcrum of growth, driven by evolving sanitation laws, a booming e-grocery sector, and rapid cold-chain upgrades. Parallel advances in controlled-release nano-silver films, natural compound integration, and smart-sensor pairing are reshaping competitive innovation priorities. As a result, the antimicrobial packaging market continues to diversify across materials, technologies, and end-use sectors.

Key Report Takeaways

- * By material, plastics led with 59.74% revenue share in 2025, while biopolymers are set to climb at an 8.05% CAGR through 2031.
- * By antimicrobial agent, organic acids held 45.12% of the antimicrobial packaging market share in 2025; bacteriocins and enzymes record the fastest 7.29% CAGR to 2031.
- * By technology, active surface coatings commanded 56.11% share of the antimicrobial packaging market size in 2025; controlled-release systems are projected to expand at 6.51% CAGR between 2026-2031.
- * By pack type, pouches and bags accounted for 39.88% of the market in 2025, whereas cartons post the highest 8.17% CAGR.
- * By end-user, food and beverages captured 45.10% share in 2025, yet healthcare and medical devices advance at a 8.66% CAGR.
- * By geography, Asia-Pacific dominated with 40.74% share in 2025 and is forecast to grow fastest at 8.44% CAGR.

Key Market Trends

Global Antimicrobial Packaging Market Trends and InsightsDrivers Impact Analysis*

Driver	(~) % Impact on CAGR Forecast	Geographic Relevance	Impact Timeline
Stringent post-COVID food-safety regulations	+1.2%	Global, with emphasis on North America and EU	Medium term (2-4 years)
Acceleration of e-grocery cold-chain investments	+0.8%	Asia-Pacific core, spill-over to North America	Short term (≤ 2 years)
Breakthroughs in controlled-release nano-silver films	+0.6%	Global, led by North America and EU research hubs	Long term (≥ 4 years)
Inclusion of antimicrobial features in ESG scorecards	+0.4%	North America and EU, expanding to Asia-Pacific	Medium term (2-4 years)
Shift to reusable medical-device trays in hospitals	+0.3%	Global, concentrated in developed markets	Short term (≤ 2 years)
Adoption of edible, antimicrobial coatings for fresh-produce export	+0.5%	Asia-Pacific export economies, MEA emerging markets	Medium term (2-4 years)

Source: Mordor Intelligence |

Competitive Landscape

Competitive Landscape

The antimicrobial packaging market remains moderately fragmented. Mega-merger activity, exemplified by Amcor's all-stock combination with Berry Global, yields a vertically integrated giant poised to extract USD 650 million in synergies by 2028. Simultaneously, niche technology firms such as Microban extend portfolios into PFAS-free water-resistant textiles, broadcasting expertise that can cross-pollinate into food and medical packs.

Strategic focus pivots on proprietary antimicrobial formulations, controlled-release patents, and demonstrable recyclability. Corporate venturing accelerates deal flow; Amcor's Lift-Off fund backs start-ups like Bloom Biorenewables to secure early access to biobased chemistries. Patent landscapes reveal clustering around enzyme-grafted coatings and nano-porous release reservoirs, areas where first-mover IP can translate into sustainable price premiums. Competitive intensity will hinge on multinationals' ability to harmonise global regulatory submissions, maintain cost discipline in volatile metals markets, and supply chain-proof biopolymer feedstocks—all critical to consolidating share within the antimicrobial packaging market.

Antimicrobial Packaging Industry Leaders* BASF SE

- * Mondi PLC

- * BioCote Limited

- * Dunmore Corporation

- * Avient Corporation

- * *Disclaimer: Major Players sorted in no particular order

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Scope Methodology P Space

This market covers packaging materials and packaging formats that are intentionally treated or designed with antimicrobial functionality to slow down microbial growth and protect packed products during storage and distribution.

Scope exclusions: We exclude antimicrobial additives sold as standalone raw materials when they are not used in a packaging application, and we also exclude non-packaging surface coatings used on equipment or buildings.

Segmentation Container

- * By Material* Plastics

- * Biopolymers

- * Paper and Paperboard

- * Glass

- * Metals

- * By Antimicrobial Agent Type* Organic Acids

- * Bacteriocins and Enzymes

- * Silver and Copper Nanoparticles

- * Essential Oils and Plant Extracts

- * By Technology* Active Surface Coating

- * Controlled-Release Systems

- * By Pack Type* Pouches and Bags
- * Films and Wraps
- * Trays and Lids
- * Carton Packages

- * By End-user Industry* Food and Beverages* Meat, Poultry and Seafood
- * Bakery and Confectionery
- * Fruits and Vegetables

- * Healthcare and Medical Devices
- * Personal Care and Cosmetics
- * Animal Feed and Pet Food
- * Other End-User Industry

- * By Geography* North America* United States
- * Canada
- * Mexico

- * Europe* Germany
- * United Kingdom
- * France
- * Italy
- * Spain
- * Russia
- * Rest of Europe

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

- * Middle East and Africa* Middle East* United Arab Emirates
- * Saudi Arabia
- * Turkey
- * Rest of Middle East

- * Africa* South Africa
- * Nigeria
- * Egypt
- * Rest of Africa

- * South America* Brazil
- * Argentina
- * Rest of South America

Frequently Asked Questions

What is the current size of the antimicrobial packaging market?

The market is valued at USD 13.61 billion in 2026 and is projected to reach USD 17.38 billion by 2031 at a 5.01% CAGR.

Which region leads the antimicrobial packaging market?

Asia-Pacific holds 40.74% of global revenue in 2025 and posts the fastest 8.44% CAGR through 2031.

Which material segment is growing fastest?

Biopolymers expand at an 8.05% CAGR as regulations favor recyclable and bio-base

d substrates.

Why are healthcare applications gaining momentum in antimicrobial packaging?

Post-pandemic infection-control priorities push healthcare packaging to a 8.66% CAGR, the swiftest among end-user industries.