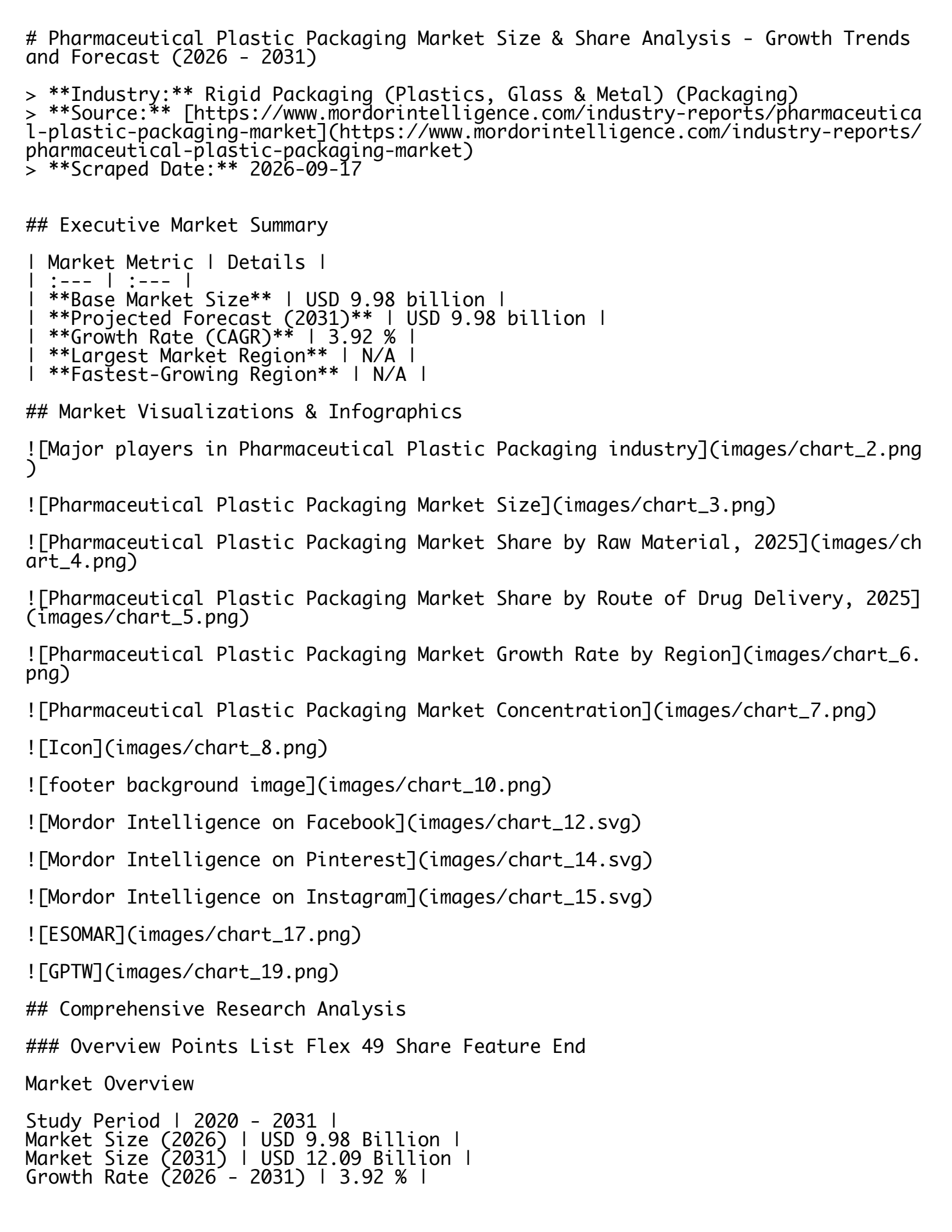
Pharmaceutical Plastic Packaging Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031)

> **Industry:** Rigid Packaging (Plastics, Glass & Metal) (Packaging)
> **Source:** https://www.mordorintelligence.com/industry-reports/pharmaceutical-plastic-packaging-market
> **Scraped Date:** 2026-09-17

Executive Market Summary

Market Metric	Details
Base Market Size	USD 9.98 billion
Projected Forecast (2031)	USD 9.98 billion
Growth Rate (CAGR)	3.92 %
Largest Market Region	N/A
Fastest-Growing Region	N/A

Market Visualizations & Infographics



Comprehensive Research Analysis

Overview Points List Flex 49 Share Feature End

Market Overview

Study Period	2020 - 2031
Market Size (2026)	USD 9.98 Billion
Market Size (2031)	USD 12.09 Billion
Growth Rate (2026 - 2031)	3.92 %

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

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Market Overview

Pharmaceutical Plastic Packaging Market Analysis by Mordor IntelligenceThe pharmaceutical plastic packaging market size is projected to expand from USD 9.57 billion in 2025 and USD 9.98 billion in 2026 to USD 12.09 billion by 2031, registering a 3.92% CAGR between 2026 to 2031. Sustained uptake of biologics and specialty injectables, tightening circular-economy regulations, and the proliferation of home-health therapies continue to shape competitive priorities. Larger buyers increasingly demand tamper-evident, traceable, and recyclable packs that safeguard complex drug chemistries without compromising speed to market. Suppliers are responding by integrating blow-fill-seal, multilayer barrier films, and AI-enabled inline inspection, moves that shorten qualification cycles and reduce scrap. Interlinked regulatory and sustainability mandates are steering investments toward certified recycled resin and bio-based feedstock, while e-commerce distribution keeps fueling lightweight, unit-dose format adoption.

Key Report Takeaways

* By raw material, Polyethylene terephthalate captured 34.23% of pharmaceutical plastic packaging market share in 2025, and high-density polyethylene is set to advance at a 5.09% CAGR through 2031.
* By product type, Vials and ampoules delivered 17.32% revenue share in 2025, whereas prefillable syringes and cartridges are forecast to grow at a 5.27% CAGR over 2026-2031.
* By packaging format, Rigid formats accounted for 56.23% of the 2025 base, yet flexible packs are on track for a 4.31% CAGR to 2031.
* By route of drug delivery, Oral drug delivery held 49.20% of the 2025 total, while parenteral and injectable formats are projected to expand at a 4.69% CAGR over the same horizon.
* By end-user, Pharmaceutical manufacturers commanded 47.12% of 2025 demand, but contract development and manufacturing organizations are expected to rise at a 4.78% CAGR to 2031.
* By geography, North America led with a 29.32% slice in 2025, and Asia-Pacific is anticipated to post a 4.91% CAGR, the fastest regional trajectory to 2031.

Key Market Trends

Global Pharmaceutical Plastic Packaging Market Trends and InsightsDrivers Impact Analysis*

Driver | (~) % Impact on CAGR Forecast | Geographic Relevance | Impact Timeline |
Growing demand for plastic packs for biologics and injectables | +1.2% | Global | Medium term (2-4 years) |
Expansion of generic drug production in emerging markets | +0.8% | Asia-Pacific, South America, Africa | Long term (≥ 4 years) |
Lightweight and shatter-proof logistics advantage | +0.7% | Global | Short term (≤ 2 years) |
Home-health and e-commerce unit-dose adoption | +0.6% | North America, Europe, Asia-Pacific | Medium term (2-4 years) |
AI-enabled predictive maintenance for BFS sterility | +0.4% | North America, Europe | Short term (≤ 2 years) |
Circularity mandates and pharmaceutical-grade PCR supply | +0.3% | Europe, North

 America, Asia-Pacific | Long term (≥ 4 years) |
Source: Mordor Intelligence |

Competitive Landscape

Competitive Landscape

The top five suppliers, Amcor, Gerresheimer, AptarGroup, West Pharmaceutical Services, and Berry Global, collectively represent well over half of installed capacity, underscoring moderate consolidation. Recent shifts emphasize capacity localization: Gerresheimer's USD 120 million Indian syringe plant brings production within one-day trucking of major vaccine hubs, slashing lead times for domestic demand. Amcor's Brazilian acquisition adds flexible and rigid assets, reinforcing its one-stop offering for biologics across South America.

Innovation pipelines reveal strategic pivots toward smart and circular designs. West's 2025 launch of an RFID-enabled self-injection system combines tamper evidence and adherence data capture, and AptarGroup's barrier-enhanced nasal systems cater to preservative-free formulations demanded by European allergen therapy specialists. Berry Global's investment in United States HDPE clean-room molding extends supply redundancy for high-potency applications. Patent analytics show a surge in low-extractable cyclic olefin structures and micro-taggant anticounterfeit coatings filed during 2025-2026.

Competitive heat intensifies as Asia-Pacific challengers harness cost advantage and government subsidies to supply CDMOs serving Western drug sponsors. Digital manufacturing techniques—computer vision for defect mapping, automated tool-change robots, and cloud MES integration—compress lead times and allow rapid iteration on geometry. Sustainability credentials increasingly influence procurement scoring, and converters with closed-loop PET or HDPE partnerships secure multiyear offtake agreements from Big Pharma sustainability councils. Despite margin pressures from raw-material price swings, established incumbents retain leverage through GMP pedigree, multi-regional audit readiness, and broad SKU portfolios.

Pharmaceutical Plastic Packaging Industry Leaders* Aptar Group Inc.

* Plastipak Holdings

* Amcor PLC

* Klöckner Pentaplast Group

* Silgan Holdings Inc.

* *Disclaimer: Major Players sorted in no particular order

Component Component 3 Scope Of The Report Bottom

Global Pharmaceutical Plastic Packaging Market Report ScopePharmaceutical plastic packaging involves using plastic materials to package pharmaceutical drugs. Pharmaceutical plastic bottles, tailored for storing and distributing pharmaceutical products, are pivotal in upholding the safety, efficacy, and integrity of medications and pharmaceutical items. Pharmaceutical plastic packaging products are designed to protect the contents from contamination, moisture, and light, ensuring the drugs remain effective throughout their shelf life. Additionally, plastic packaging offers lightweight, durability, and cost-effectiveness benefits, making it a preferred choice in the pharmaceutical industry.

The Pharmaceutical Plastic Packaging Market Report is segmented by Raw Material (Polypropylene, Polyethylene Terephthalate, High-Density Polyethylene, Low-Density Polyethylene, Cyclic Olefin Polymer/Copolymer, Bio-Based and Recycled Plastic

s), Product Type (Bottles and Solid Containers, Vials and Ampoules, Pre-Fillable Syringes and Cartridges, Blister Packs and Strip Packs, Pouches/Stick Packs/Sachets, Closures, Caps and Lids, IV Bags and Flexible Bags), Packaging Format (Rigid, Flexible), Route of Drug Delivery (Oral, Parenteral/Injectable, Ophthalmic/Nasal, Topical/Transdermal), End-User (Pharma Manufacturers, CDMOs, Hospitals and Clinics, Home-Care Settings), and Geography (North America, Europe, Asia-Pacific, Middle East, Africa, South America). The Market Forecasts are Provided in Terms of Value (USD).

By Raw MaterialPolypropylene (PP) |
Polyethylene Terephthalate (PET) |
High-Density Polyethylene (HDPE) |
Low-Density Polyethylene (LDPE) |
Cyclic Olefin Polymer / Copolymer (COP/COC) |
Bio-Based and Recycled Plastics |

Segmentation Accordion Item

By GeographyNorth 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 | 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

How large will the pharmaceutical plastic packaging market be by 2031?

It is projected to reach USD 12.09 billion by 2031, based on a 3.92% CAGR from 2026 to 2031.

Which raw material leads current demand?

Polyethylene terephthalate held 34.23% of 2025 demand, topping all other resins.

What packaging format is growing fastest?

Flexible packs are expected to grow at a 4.31% CAGR, outpacing rigid alternatives.

Why are prefillable syringes gaining traction?

Self-administration trends and biologic therapies are driving a 5.27% CAGR for prefillable syringes and cartridges.

Which region is set to expand quickest?

Asia-Pacific is forecast to post a 4.91% CAGR because of manufacturing expansion in China and India.

How are regulations influencing material choices?

EU SUP, EPR fees, and FDA guidance push converters toward recyclable monomaterial packs and certified recycled resin to balance compliance and sustainability.