

Sterile Medical Packaging - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The Sterile Medical Packaging Market size is estimated at USD 56.67 billion in 2024, and is expected to reach USD 85.05 billion by 2029, growing at a CAGR of 8.46% during the forecast period (2024-2029).

Sterilization is an important processing step in the healthcare industry. Therefore, sterile packaging products or sterile barrier systems are becoming increasingly important in the industry. Sterile medical packaging is non-reusable and acts as a barrier against microbial infection. Using plastic and paper offers lightweight, recyclability, and durability advantages.

Key Highlights

The medical and pharmaceutical industries are experiencing a growing need for packaging to safeguard products from environmental factors like moisture while in transit. Additionally, the rising investments in packaging technologies, including the use of advanced equipment to enhance efficiency, are driving up the demand for packaging solutions that guarantee the integrity and sterility of medical devices and pharmaceuticals.

Material advancements in plastics drive the market, using plastics in medical devices and supplies, including personal protective equipment. Plastics are also crucial in essential medical production, packaging, and distribution. Various pharmaceutical and medical device packaging manufacturers are constantly improving their product portfolio by introducing better sterile packaging solutions.

In January 2024, global microbiology solution expert Cherwell announced the launch of the groundbreaking Redipor Beta Bag. This innovative plastic bag for multiple uses has the potential to decrease risk, expenses, and time involved in environmental monitoring (EM) procedures while continuously manufacturing sterile medicinal products. The recently introduced transfer bags have been thoroughly validated and are designed to work seamlessly with 190mm Getinge Alpha Ports commonly found in isolators and RABS systems. This ensures a contamination-free transfer of creditor-plated media, allowing for efficient production and a notable decrease in risk.

The over-the-counter (OTC) popularity is growing because of the rising prescription drug costs and increasing concerns over safety. Further, the increase in certain disorders, such as those related to pain, stress, and skin conditions, contributes to the growing consumption of OTC drugs. The demand for OTC drugs will likely increase the demand for sterile packaging across the pharmaceutical industry.

The medical sterile packaging sector doesn't allow any room chances for contamination and infections. Therefore, the sector is strictly regulated globally to guarantee the safety of products from contamination and tampering and to ensure that vital information regarding dosage, usage, manufacturing, expiration dates, and other details is accurately presented. However, in an industry where patient safety is paramount, following detailed criteria that control the packaging sometimes becomes overly critical. The dynamic nature of packaging regulations makes it challenging for the manufacturers in the industry.

The spending on medical and pharmaceuticals has been increasing globally since the post-COVID-19 pandemic, consequently increasing the demand for medical sterile packaging.

Sterile Medical Packaging Market Trends

Pharmaceutical Sector to Hold Major Market Share

The global pharmaceutical industry has experienced significant growth in the past years, mainly due to technological advancements and innovations in the market. According to the National Library of Medicine, the FDA approved 55 new drugs in 2023, which drives the market's growth.

According to data from the World Health Organization, the number of people aged 60 years and older in 2019 was 1 billion, which is likely to increase to 1.4 billion by 2030

and 2.1 billion by 2050, respectively. The demand for sterile packaging in the pharmaceutical industry is attributable to the rising aging population with high medical product use. Growth in diseases, including cancer, diabetes, and bowel diseases, requires long-term use of medicines and drugs, thus boosting the market's growth.

The pharmaceutical sterile packaging for drugs and medicines ensures the products are contamination, dust-free, and secure during the supply chain, propelling the market growth. Packaging such as thermoform trays, blister packs, and pouches help prevent the spread of harmful germs used by patients.

Major players strive to provide the highest level of protection through sterile packaging. Companies such as DuPont de Nemours Inc. provide pharmaceutical sterile packaging with high strength and microbial barriers to help preserve sterility during shipping and storage.

Furthermore, according to the IQVIA report published on January 2023, global spending on medicine and pharmaceuticals is constantly growing, with approximately USD 1.482 trillion in 2022; encouragingly, the pharmaceutical and medical expenditure is expected to increase to around 1.917 trillion by 2027.

Asia Pacific to Register Major Growth

The sterile packaging market in Asia Pacific, is estimated to rise due to the growing emphasis on the healthcare and medical industry. The rising demand for the medical industry has resulted in a boom in the packaging of medical devices and surgical instruments.

The development in the sterile packaging industry in the region is attributable to the rising advancements in sterilization technologies and intelligent design packaging solutions that boost the market's growth.

As the healthcare industry continues to grow globally, driven by an aging population, increasing prevalence of chronic diseases, and advancements in medical technology, the demand for sterile medical device packaging is expected to rise correspondingly. This growth is further driven by the heightened emphasis on infection control and patient safety, prompting medical device manufacturers to prioritize the use of sterile packaging to ensure the integrity and sterility of their products.

Increasing emphasis on patient safety and rising demand for single-use medical products has resulted in a growing demand for high-quality sterile packaging solutions. Technological innovation in sterile packaging solutions with enhanced durability and barrier properties is also trending across the region.

Sterile Medical Packaging Industry Overview

The sterile medical packaging market is semi-consolidated with various factors affecting the market, such as brand identity, powerful competitive strategy, and degree of transparency. Strong brands are synonymous with good performance, so long-standing players are expected to have the upper hand. Moreover, the involvement of large-scale investment also increases the barriers to exit for existing players, thereby pushing the industry toward improved competition. Additionally, vendors are enhancing their technological capabilities, thereby intensifying market competition. Some of the players in the market are Amcor Group GmbH, Dupont De Nemours Inc., Steripack Group Limited, Wipak Group, Placon Corporation

In April 2024, DuPont announced the launch of the addition of its roofing underlayment product line, the Tyvek Protec PSU peel-and-stick underlayment. The new product is designed to provide high-performance, high-temperature, and UV resistance, a slip-resistant walking surface, a split liner for easy installation, an ICC-ES code report, and prestigious FL/Miami-Dade certification.

In February 2024, Spectrum announced plans to expand its facility in Costa Rica, incorporating sterile DuPont Tyvek medical packaging capabilities and enhancing its medical tubing operations. The expansion of the Heredia facility from 36,000 square feet to 52,000 square feet aims to increase capacity and expedite service delivery.

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Contents

1 INTRODUCTION

- 1.1 Study Assumptions and Market Definition
- 1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET INSIGHTS

- 4.1 Market Overview
- 4.2 Industry Value Chain Analysis
- 4.3 Industry Attractiveness - Porter's Five Forces Analysis
- 4.4 Impact of the Current Geo-political Scenarios on the Market

5 MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Stringent Regulations Toward Infection Control Expected to Aid Demand for Sterile-based Products
 - 5.1.2 Recent Increase in Utilization Capacity
 - 5.1.3 Material Advancements in the Field of Plastics
- 5.2 Market Challenges
 - 5.2.1 Dynamic Nature of Regulations Makes it Challenging for Manufacturers to Comply with Local Factors with Issues Related to Material Availability

6 MARKET SEGMENTATION

- 6.1 By Material Type
 - 6.1.1 Plastic
 - 6.1.1.1 Polypropylene (PP)
 - 6.1.1.2 Polyester
 - 6.1.1.3 Polystyrene (PS)
 - 6.1.1.4 Polyvinyl Chloride (PVC), High-density Polyethylene (HDPE), etc
 - 6.1.2 Paper and Paperboard
 - 6.1.3 Glass

- 6.1.4 Other Material Types
- 6.2 By Product Type
 - 6.2.1 Thermoform Trays
 - 6.2.2 Sterile Bottles and Containers
 - 6.2.3 Pouches and Bags
 - 6.2.4 Blisters Packs
 - 6.2.5 Vials and Ampoules
 - 6.2.6 Pre-Filled Syringes
 - 6.2.7 Wraps
- 6.3 By Application Type
 - 6.3.1 Pharmaceutical
 - 6.3.2 Surgical and Medical Appliances
 - 6.3.3 In Vitro Diagnostics (IVD)
 - 6.3.4 Other Applications
- 6.4 By Sterilization Type
 - 6.4.1 Chemical Sterilization
 - 6.4.2 Radiation Sterilization
 - 6.4.3 Pressure/Temperature Sterilization
- 6.5 By Geography***
 - 6.5.1 North America
 - 6.5.2 Europe
 - 6.5.3 Asia
 - 6.5.4 Australia and New Zealand
 - 6.5.5 Latin America
 - 6.5.6 Middle East and Africa

7 COMPETITIVE LANDSCAPE

- 7.1 Company Profiles*
 - 7.1.1 Amcor Group GmbH
 - 7.1.2 Dupont De Nemours Inc.
 - 7.1.3 Steripack Group Limited
 - 7.1.4 Wipak Group
 - 7.1.5 Placon Corporation
 - 7.1.6 Riverside Medical Packaging Company Ltd
 - 7.1.7 Tekni-Plex Inc.
 - 7.1.8 BillerudKorsnas AB
 - 7.1.9 Sonoco Products Co
 - 7.1.10 DWK Life Sciences

- 7.1.11 Technipaq Inc.
- 7.1.12 3M Company
- 7.1.13 Nelipak Healthcare Packaging
- 7.1.14 Oliver Healthcare Packaging
- 7.1.15 Beacon Converting Inc.
- 7.1.16 Paxxus Inc.
- 7.1.17 Spectrum Plastics Group
- 7.1.18 Sterimed Holdings SaS
- 7.1.19 Sigma Medical Supplies Corporation
- 7.1.20 Charter Next Generation
- 7.1.21 Berry Global Inc.
- 7.1.22 Sealed Air Corporation

8 MARKET OUTLOOK

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