

Global 2D and 3D Single Use Bioprocess Bags Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 2D and 3D Single Use Bioprocess Bags market size is expected to reach \$ 1816 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

In 2025, global 2D and 3D Single Use Bioprocess Bags production reached approximately 4,200 k units with an average global market price of around US\$ 320 per unit, and a gross profit margin of approximately 10%-30%. 2D and 3D single use bioprocess bags are widely used storage and transfer solutions in the bioprocess field, offering different shapes and capacities to meet the needs of various bioprocess steps. 2d bioprocess bags are typically flat and suitable for smaller volumes and lower mixing requirements, such as sample preparation and initial storage. Conversely, 3D bioprocess bags feature larger capacities and more three-dimensional shapes, facilitating the mixing, storage, and transfer of large volumes of bioprocess media, such as those used in cell culture, fermentation, and downstream processing. These bags are designed for single use and constructed from high-quality, low-permeability materials to ensure sterility, integrity, and biocompatibility. In biopharmaceutical manufacturing, cell therapy, vaccine production, and biotechnology, 2d and 3D single-use bioprocess bags are critical components for reducing contamination risks, enhancing production efficiency, and optimizing cost-effectiveness.

The combined 2D and 3D single-use bioprocess bag market is expanding as biopharma manufacturers accelerate adoption of closed, flexible single-use fluid handling to reduce cleaning validation and improve multi-product agility. Demand is supported by biologics scale-up, vaccine and mRNA production, and rapid growth of CDMOs that rely on fast changeover. 2D bags dominate routine buffer/media holds and sampling, while 3D bags gain share in higher-volume storage, transport, and mixing applications where handling

robustness is critical. Buyers prioritize low extractables/leachables, consistent weld quality, connector reliability, and strong supply assurance due to high batch-loss risk. Trends include improved multilayer films with better barrier/toughness, standardization of aseptic connectors, higher automation in filling and handling, and tighter quality documentation for audits. Constraints include medical-grade film supply volatility, requalification burden from material changes, and stringent particulate and integrity risk management. Overall, growth is strong, with value concentrating in validated materials, stable manufacturing, and resilient supply chains.

This report studies the global 2D and 3D Single Use Bioprocess Bags production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 2D and 3D Single Use Bioprocess Bags and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 2D and 3D Single Use Bioprocess Bags that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 2D and 3D Single Use Bioprocess Bags total production and demand, 2021-2032, (K Units)

Global 2D and 3D Single Use Bioprocess Bags total production value, 2021-2032, (USD Million)

Global 2D and 3D Single Use Bioprocess Bags production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 2D and 3D Single Use Bioprocess Bags consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 2D and 3D Single Use Bioprocess Bags domestic production, consumption, key domestic manufacturers and share

Global 2D and 3D Single Use Bioprocess Bags production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 2D and 3D Single Use Bioprocess Bags production by Action, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 2D and 3D Single Use Bioprocess Bags production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 2D and 3D Single Use Bioprocess Bags market based on the following parameters - company overview, production, value, price,

gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Entegris, Thermo Fisher, Avantor, Sartorius, Corning, Cytiva, Saint-Gobain Life Sciences, K?hner, CellBios, Meissner, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 2D and 3D Single Use Bioprocess Bags market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Action, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 2D and 3D Single Use Bioprocess Bags Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 2D and 3D Single Use Bioprocess Bags Market, Segmentation by Action:

?100L

100-500L

?500L

Global 2D and 3D Single Use Bioprocess Bags Market, Segmentation by Structure:

Single Layer

Multi Layer

Global 2D and 3D Single Use Bioprocess Bags Market, Segmentation by Application:

Biopharmaceutical

Vaccine Manufacturing

Others

Companies Profiled:

Entegris

Thermo Fisher

Avantor

Sartorius

Corning

Cytiva

Saint-Gobain Life Sciences

K?hner

CellBios

Meissner

Cobetter

Nupore

Vonco

TECNIC

CLARIPURE

D&D Filtration

Zhejiang JYSS Bio-Engineering

Shanghai Lepure Biotech

Dongfulong Life Technology

Shanghai Duoning Biotechnology

Truking Technology

Applitech Biological Technology

Shanghai Baigaole Biotechnology

Key Questions Answered:

1. How big is the global 2D and 3D Single Use Bioprocess Bags market?
2. What is the demand of the global 2D and 3D Single Use Bioprocess Bags market?
3. What is the year over year growth of the global 2D and 3D Single Use Bioprocess Bags market?
4. What is the production and production value of the global 2D and 3D Single Use

Bioprocess Bags market?

5. Who are the key producers in the global 2D and 3D Single Use Bioprocess Bags market?
6. What are the growth factors driving the market demand?

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