

Global 3D Single-use Bioprocessing Bags Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 3D Single-use Bioprocessing Bags market size is expected to reach \$ 1115 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

In 2025, global 3D Single-use Bioprocessing Bags production reached approximately 2,500 k units with an average global market price of around US\$ 330 per unit, and a gross profit margin of approximately 10%-30%. The 3D Single-use Bioprocessing Bags are three-dimensional flexible containers fabricated via multilayer co-extrusion film technology, featuring a volumetric design that enhances specific surface area and uniform hydrodynamic conditions for sterile cell culture or biocatalysis processes, offering disposability, reduced cross-contamination risks, and operational convenience.

The 3D single-use bioprocessing bag market is expanding as biopharma manufacturers increase flexible capacity and reduce cleaning validation by adopting single-use fluid management. Growth is driven by biologics scale-up, vaccine and mRNA platforms, and the rise of CDMOs that value fast changeover and multi-product operations. Buyers prioritize low extractables and leachables, robust weld quality, reliable connectors, and strong supply assurance because bag failures can trigger costly batch loss. Trends include higher-volume 3D bags, improved multilayer films with better barrier performance, standardized aseptic connectors, and stronger quality documentation for regulatory audits. Constraints include resin and film supply volatility, qualification workload for material changes, and risk management for particulates and integrity. Overall, growth is strong, with value concentrating in validated materials, consistent manufacturing quality, and secure, redundant supply chains.

This report studies the global 3D Single-use Bioprocessing Bags production, demand,

key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 3D Single-use Bioprocessing 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 3D Single-use Bioprocessing Bags that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 3D Single-use Bioprocessing Bags total production and demand, 2021-2032, (K Units)

Global 3D Single-use Bioprocessing Bags total production value, 2021-2032, (USD Million)

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

Global 3D Single-use Bioprocessing Bags consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 3D Single-use Bioprocessing Bags domestic production, consumption, key domestic manufacturers and share

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

Global 3D Single-use Bioprocessing Bags production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 3D Single-use Bioprocessing Bags production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 3D Single-use Bioprocessing 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, Cytiva, Saint-Gobain Life Sciences, K?hner, CellBios, Meissner, Cobetter, 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 3D Single-use Bioprocessing 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 Type, 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 3D Single-use Bioprocessing Bags Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 3D Single-use Bioprocessing Bags Market, Segmentation by Type:

?100L

100-500L

?500L

Global 3D Single-use Bioprocessing Bags Market, Segmentation by Structure:

Single Layer

Multi Layer

Global 3D Single-use Bioprocessing Bags Market, Segmentation by Action:

Storage

Transportation

Others

Global 3D Single-use Bioprocessing Bags Market, Segmentation by Application:

Biopharmaceutical

Cell Therapy

Vaccine Manufacturing

Genetic Engineering

Others

Companies Profiled:

Entegris

Thermo Fisher

Avantor

Sartorius

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

Truiking Technology

Applitech Biological Technology

Shanghai Baigaole Biotechnology

Key Questions Answered:

1. How big is the global 3D Single-use Bioprocessing Bags market?
2. What is the demand of the global 3D Single-use Bioprocessing Bags market?
3. What is the year over year growth of the global 3D Single-use Bioprocessing Bags market?

4. What is the production and production value of the global 3D Single-use Bioprocessing Bags market?
5. Who are the key producers in the global 3D Single-use Bioprocessing Bags market?
6. What are the growth factors driving the market demand?

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