

Biodegradable Medical Plastics Market to Reach USD 4.5 Bn by 2032, Driven by Sustainability and Innovation

The biodegradable medical plastics market is set for exponential growth, driven by sustainability demands and technological advancements.

AUSTIN, TX, UNITED STATES, February 5, 2025 /EINPresswire.com/ --

According to Research by SNS Insider, The global [biodegradable medical plastics market](#), valued at USD 1.7 billion in 2023, is set to expand to USD 4.5 billion by 2032, registering a robust CAGR of 11.5% during the forecast period of 2024-2032. This growth is fueled by the rising emphasis on sustainability, increased regulatory focus on reducing environmental impact, and the increasing demand for eco-friendly materials in healthcare applications.

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By Type, in 2023, the Polylactic Acid (PLA) segment dominated the Biodegradable Medical Plastics Market, holding a share of 45% of the market.

PLA is the most popular among other biodegradable plastics because of its superior mechanical strength, biocompatibility, and relatively lower production cost compared to other biodegradable plastics. It has been used successfully in the medical field, especially for packaging and disposable medical products. For example, in March 2023, NatureWorks LLC unveiled PLA-based products for medical packaging and disposables.

By Technology, the Injection Molding technology segment accounted for the largest share in 2023, at 50%.

This technology is indispensable in the production of biodegradable medical plastics due to its ability to produce complex and high-precision medical components with consistent quality.



The Medical Devices application segment represented 40% of the biodegradable medical plastics market as of 2023.

A reason for their supremacy is the rising demand for biodegradable yet performance-oriented green materials that compete well with product-based sustainability features. In its commitment to achieving environmentally friendly initiatives while maintaining all other aspects of products, during February 2023, Medtronic combined biodegradable plastics in all of its available surgical tools along with diagnostic machinery into its products for effective environmental purposes.

By End-User: Hospitals Drive Market Demand for Biodegradable Plastics

The Hospitals segment stood at around 55% in 2023, and this is because most hospitals are the first adopters of biodegradable plastics, especially for disposable medical equipment and packaging. According to Johnson & Johnson, which already reported in March of 2023, its biodegradable plastics are used increasingly in surgical tools and packages within hospitals. It is still driven by growing demand for more environmentally friendly practices in hospitals.

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North America held the largest share of the Biodegradable Medical Plastics Market in 2023, accounting for 45%.

This dominance is driven by strong regulatory initiatives, such as the U.S. Food and Drug Administration's support for sustainable medical practices, and the increasing adoption of biodegradable plastics by major healthcare companies.

The Asia-Pacific region is the fastest-growing market, expanding at a CAGR of approximately 12%. Countries like Japan, China, and India are making significant strides toward incorporating sustainable materials in healthcare systems. For example, Japan's initiatives to reduce medical waste have spurred interest in biodegradable plastics, while India's growing healthcare infrastructure is increasing the demand for eco-friendly medical solutions.

Biodegradable Medical Plastics Market Segmentation

By Type

- Polylactic Acid (PLA)
- Polyhydroxyalkanoates (PHA)
- Polycaprolactone (PCL)
- Others

By Technology

- Extrusion
- Injection Molding
- Blow Molding

By Application

- Medical Devices
- Packaging
- Drug Delivery Systems
- Wound Care
- Others

By End-user

- Hospitals
- Clinics
- Research Institutions
- Others

Key Players in Biodegradable Medical Plastics Market

- BASF SE
- NatureWorks LLC
- Cardia Bioplastics
- Danimer Scientific
- TotalEnergies
- Green Dot Bioplastics
- Novamont S.p.A
- Biomerics
- Medline Industries Inc.
- Evonik Industries AG

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