

Bio-based Polypropylene In Medical Devices Market Size, Share & Trends Analysis Report By Application (Heart Valve Structures, Surgery Sutures, Surgical Mesh), By Region (North America, Asia Pacific, Europe), And Segment Forecasts, 2025 - 2030

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Abstracts

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Bio-based Polypropylene In Medical Devices Market Growth & Trends

The global bio-based polypropylene in medical devices market size is anticipated to reach USD 40,626.42 thousand by 2030, according to a new report by Grand View Research, Inc. The market is projected to grow at a CAGR of 19.47% from 2025 to 2030. The rapidly increasing number of hernia & cardiac cases, and technological advancement across the medical industry, globally have increased the demand for bio-based polypropylene in the medical devices industry.

The bio-based polypropylene is suitable for the manufacturing of surgical sutures due to properties such as biocompatibility. Furthermore, medical sutures are used for surgical procedures, stitch wounds, and minor lacerations. Such injuries and advanced surgical procedures have fueled the demand for bio-based polypropylene use in surgical sutures.

The rapidly increasing amount of e-waste is a major global concern and is being addressed by various countries. Numerous companies have adopted the use of post-consumer recycled plastics to manufacture their electronic products and have included them as a part of their sustainability goal. In addition, a rising number of environmental conservation awareness programs are being carried out, keeping both consumers and

electronic device manufacturers well-informed regarding the rapid growth of e-waste.

In addition, various end-use industries have implemented the utilization of post-consumer recycled plastics for the manufacturing of their products. This enables them to control the raw material cost, along with positioning themselves as an environment-friendly product developer in comparison to their counterparts.

For instance, in 2020, Neste and LyondellBasell Industries Holdings B.V. announced their long-term agreement to manufacture polymers and chemicals based on renewable feedstock. This initiative was taken into consideration due to LyondellBasell's shift towards a circular economy.

Bio-based Polypropylene In Medical Devices Market Report Highlights

Heart valve structures dominated the market with a revenue share of 35.88% in 2024. Rising heart ailments and increasing death rates due to cardiac arrest have propelled the demand for technological advancements across the cardiac sector of the medical industry globally.

The surgery sutures segment is gaining attention as healthcare systems increasingly prioritize eco-friendly solutions without compromising on safety or performance.

The bio-based polypropylene in medical devices market in Asia Pacific dominated the global industry and accounted for the largest revenue share of 63.45% in 2024, which is attributable to the growing commitment by governments to reduce environmental pollution and foster sustainable healthcare solutions.

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