Medical Device Plastics Market by Material (Standard Plastics, Engineering Plastics), Source, Manufacturing Process (Extrusion, CNC Machining, Injection Molding), Application (Diagnostics Equipment, Surgical Instruments), & Region - Global Forecast to 2030

Market Report | 2025-11-14 | 270 pages | MarketsandMarkets

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Report description:

The medical device plastics market is estimated to be worth USD 21.93 billion in 2025 and is projected to reach USD 31.82 billion by 2030, growing at a CAGR of 7.7% from 2025 to 2030. The engineering plastics segment holds the second-largest share in the medical device plastics market based on material type, driven by its superior mechanical strength, heat resistance, and chemical stability. These plastics offer excellent dimensional stability and sterilization compatibility, making them ideal for applications requiring durability and long service life. Furthermore, the growing adoption of miniaturized and high-performance medical devices, especially in diagnostics and patient monitoring, continues to boost demand for engineering plastics. As OEMs seek lightweight, cost-effective, and regulatory-compliant alternatives to metals, this segment remains a critical enabler of innovation and reliability in modern medical device manufacturing.

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''In terms of value, the drug delivery systems segment accounted for the largest share of the overall medical device plastic market.''
The drug delivery systems segment leads the medical device plastics market in terms of application, accounting for the largest revenue share. This dominance is driven by the widespread use of plastic-based components in syringes, catheters, infusion systems, inhalers, and prefilled drug delivery devices. The increasing adoption of self-administrative and minimally invasive drug delivery systems, along with the rising prevalence of chronic diseases requiring continuous medication, is driving this trend.

Additionally, advances in micro-molding and multi-material injection technologies are enabling the production of highly integrated, disposable, and patient-friendly delivery devices, further solidifying this segment's leadership in the medical device plastics market.

"North America is projected to account for the largest market share during the forecast period".
North America dominates the medical device plastics market, holding the largest regional share, primarily due to its strong healthcare infrastructure, high medical device consumption, and advanced manufacturing ecosystem. The region's leadership is further supported by the presence of major OEMs and specialized contract manufacturers that focus on precision-molded plastic components for noninvasive and drug delivery applications. Key players such as Jabil Inc., SMC Ltd., and Phillips-Medisize (a Molex company) are at the forefront of this market, offering advanced medical-grade injection molding, cleanroom manufacturing, and assembly services.
This study has been validated through primary interviews with industry experts globally. These primary sources have been divided into the following three categories:
-□By Company Type: Tier 1 - 60%, Tier 2 - 20%, and Tier 3 - 20%
-□By Designation: C Level - 33%, Director Level - 33%, and Managers - 34%
-□By Region: North America - 20%, Europe - 25%, Asia Pacific - 25%, Middle East & Africa - 15%, and Latin America - 15%
The report provides a comprehensive analysis of company profiles:
Prominent companies in this market include Jabil Inc. (US), Phillips Medisize (US), Donatelle Plastics, LLC (US), Spectrum Plastics Group (US), Bemis Manufacturing Company (US), Nolato (Sweden), Trelleborg AB (Sweden), Freudenberg Medical (US), Viant (US), and SMC Ltd. (US).
Study Coverage

This research report categorizes the medical device plastics market by material type (standard plastics, engineering plastics, and other specialty types), source (fossil-based and bio-based), manufacturing process (extrusion, CNC machining, injection molding, vacuum casting, thermoforming, blow molding, and other manufacturing processes), application (diagnostics equipment, surgical instruments, delivery systems, point-of-care devices, wearable medical devices, medical device housings, and other applications), an region (North America, Europe, Asia Pacific, Middle East & Africa, and South America). The scope of the report includes detailed information about the major factors influencing the growth of the medical device plastics market, such as drivers, restraints, challenges, and opportunities. A thorough examination of the key industry players has been conducted in order to provide insights into their business overview, solutions, and services, key strategies, contracts, partnerships, and agreements. Product launches, mergers and acquisitions, and recent developments in the medical device plastics market are all covered. This report includes a competitive analysis of upcoming startups in the medical device plastics market ecosystem.
Reasons to Buy this Report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall medical device plastics market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.
The report provides insights on the following pointers:

-□Analysis of key drivers (continuous investment in the healthcare segment, growing aging population, and chronic diseases), restraints (volatility in raw material prices), opportunities (contract manufacturing boom), and challenges (quality and biocompatibility testing, skilled workforce, and technology gaps).

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and service launches in the medical device plastics market.

-Market Development: Comprehensive information about lucrative markets - the report analyses the medical device plastics market across varied regions.

-Market Diversification: Exhaustive information about services, untapped geographies, recent developments, and investments in the medical device plastics market

-Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like Jabil Inc. (US), Phillips Medisize (US), Donatelle Plastics, LLC (US), Spectrum Plastics Group (US), Bemis Manufacturing Company (US), Nolato (Sweden), Trelleborg AB (Sweden), Freudenberg Medical (US), Viant (US), and SMC Ltd. (US) in the medical device plastics market.

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