

Medical Plastics: Global Markets

Market Research Report | 2026-02-06 | 194 pages | BCC Research

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Report description:

Description

Report Scope

The report provides detailed insights into different types of resins and applications, as well as regions, in the global medical plastics market. It also offers cross-segmentation within the application of medical plastics by resin type. Estimated revenue values are mentioned in USD millions and are based on manufacturers' total revenues. Projected revenue values are in constant U.S. dollars, unadjusted for inflation. The study provides market volume in kilotons and considers the demand for plastics only in medical applications within hospitals and clinics.

The global medical plastic market is segmented into the following categories.

In terms of resin, the market is segmented into:

- Commodity thermoplastics.
- Polyvinylchloride (PVC).
- Polypropylene.
- Low-density polyethylene and linear low-density polyethylene (LDPE/LLDPE).
- High-density polyethylene (HDPE) and others.
- Engineering resins.
- Polyesters.
- Polycarbonates.
- Polysulfones.
- Nylons.
- Other engineered thermoplastics (ETPs).
- Styrenics.
- Polystyrene/high impact polystyrene (HIPS).
- Acrylonitrile butadiene styrene (ABS).

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- Thermosets.
- Acrylics.
- Silicones.
- Polyurethanes.
- Thermoplastic elastomers.
- Miscellaneous.

Based on application, the market is segmented into:

- Disposables.
- Face and body protection and medical kits - By resin.
- Gloves - By resin.
- Syringes - By resin.
- Tubing - By resin.
- Intravenous (IV) unit - By resin.
- Utensils - By resin.
- Medical bags - By resin.
- Others - By resin.
- Non-disposables.
- Surgical instruments - By resin.
- Testing/diagnostic equipment - By resin.
- Prostheses/implants - By resin.
- Dental/ophthalmic - By resin.

In terms of technology, the market is segmented into:

- Injection molding.
- Extrusion.
- Rotational molding.
- Others.

Based on region, the market is segmented into:

- Asia-Pacific (APAC).
- Europe.
- North America.
- Rest of the World (RoW).

Report Includes

- 230 data tables and 40 additional tables
- In-depth analysis of the global markets for medical plastics
- Analyses of the global market trends, with revenue data for 2024, estimates for 2025, forecast for 2029, and projections of compound annual growth rates (CAGRs) through 2030
- Estimates of the current actual market size and future consumption of medical plastics in value and volumetric terms, their revenue forecasts, accompanied by a market share analysis by resin type, technology, application and region
- Facts and figures pertaining to market dynamics, technological advances, regulations, prospects and the impacts of macroeconomic variables
- Insights derived from Porter's Five Forces model, as well as global supply chain and PESTLE analyses
- Case studies on AI adoption on the medical plastics market, use-case analysis and disruption trends
- Emerging technologies and new developments in medical plastics, as well as an evaluation of recent patent activity featuring key granted and published patents
- Overview of sustainability trends and ESG developments, with emphasis on consumer attitudes, as well as the ESG risk ratings and practices of leading companies
- Analysis of the industry structure, including companies' market shares and rankings, strategic alliances, M&A activity and a

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venture funding outlook

- Profiles of the leading companies, including Solvay, Arkema Global, Eastman Chemical Company, Ensinger and Evonik Industries AG

Executive Summary

Summary:

The global market for medical plastics is estimated to grow from \$31.4 billion in 2024 to reach \$51 billion by 2030, at a compound annual growth rate (CAGR) of 10.2% from 2025 through 2030.

Medical plastics are continuing to revolutionize the global healthcare industry. The rising market penetration of plastics in medical devices is transforming the material landscape, with plastics gradually replacing conventional materials such as ceramics, glass and metals. Proliferating trends, such as the adoption of materials that enhance quality and safety, are further urging medical device manufacturers to adopt advanced medical polymers that meet safety, regulatory, functional, and manufacturability requirements for medical products.

Market Dynamics and Growth Factors

The global medical plastics market is driven by the rapidly growing focus on healthcare in emerging economies, rising demand for advanced medical devices and increasing integration with advanced manufacturing. Demographic shifts are expected to further drive growth in the healthcare sector. Additionally, improved healthcare and longer lifespans play a major role in driving overall market demand.

This increased longevity, coupled with favorable government initiatives, will further drive demand for healthcare services worldwide. The rising prevalence of cardiovascular diseases, the miniaturization of medical devices, the increasing focus on early detection and prevention, and rapid technological advances are also key growth drivers for the medical device market, which, in turn, is propelling the global medical plastics market.

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