Medical Plastics: Global Markets

Market Research Report | 2024-01-22 | 331 pages | BCC Research

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Report description:

Description

Report Scope:

The report analyses the global medical plastics market based on application and resin type. These segmentations are further analyzed at the global and regional levels.

The base year considered for analysis is 2022, and the market estimates and forecasts are given from 2023 to 2028. The market estimates are provided in terms of volume (kilotons) and revenue (U.S. dollars, million).

The scope for the medical plastics market is segmented into application and resin type.

Based on application, the market is segmented into -

Disposables -
- Medical bags.
- Syringes.
- Tubing.
- Surgical textiles.
- Utensils.
- Face and body protection and medical kit.
- Catheters/IV.
- Gloves.
- Others (Trays, etc.).

Non-disposables -
- Surgical instruments.
- Testing/diagnostic equipment.
- Prostheses/implants.
- Dental/ophthalmic.

Based on resin, the market is segmented into -
- Commodity thermoplastics.
- Styrenics.
- Engineering resins.
- Thermosets.
- TPEs.
- Miscellaneous.

Report Includes:

- 206 data tables and 65 additional tables
- An overview and analysis of the global markets for medical plastics
- Analyses of the global market trends, with historical market revenue data (sales figures) from 2022, estimates for 2023, forecasts for 2024, and projections of compound annual growth rates (CAGRs) through 2028
- Estimates of the current actual market size and future consumption of medical plastics, their revenue forecast, correlated growth rates and market share analysis based on the resin types and sub-segments, applications and regions/countries
- Information on new products and technologies related to medical plastics, sterilization techniques, medical plastic product lines, environmental and regulatory updates, and other macroeconomic trends and factors shaping the industry.
- Overview of the market drivers and challenges
- Analysis of market growth opportunities with a holistic review of Porter's Five Forces and PESTLE analyses, taking into account the prevailing micro- and macroeconomic factors in the market
- Discussion of sustainability trends and factors in the market for medical plastics, with emphasis on consumer attitudes, ESG scores, case studies and the ESG practices of leading companies
- Review of the emerging new technologies and patents in the medical plastics industry
- An overview of the vendor landscape and the industry structure, including company market shares, recent M&A activity and venture funding
- Profiles of the leading companies, including Avient, Celanese, Eastman, Evonik, Neste Oyj, and Sumitomoto

Executive Summary

Summary:

Medical plastics are plastic grades that have been specially created or customized to develop various medical plastic products for the healthcare sector. These polymers have been designed into crucial components for the healthcare system. Medical plastics vary in properties and characteristics to a large extent. Due to the strict regulatory standards for medical parts, medical devices and packaging manufacturers employ medical plastic for specific health applications, from surgical tools to medical supplies.

In most situations, medical prototypes and components made of plastic have appropriate resistance to temperature, corrosion, impact, wear, and wear and tear. By doing this, the plastic parts can continue to work well even after being exposed to repeated sterilizing procedures or other bodily fluids or medical fluids while being used. Additionally, plastics used in medical equipment are

biocompatible with the human circulatory system, and their simplicity in disposal has proven to be a breakthrough in the healthcare sector. The fundamental reason is that medical polymers work to prevent the spread of illnesses connected to non-disposable medical items. Numerous manufacturers and distributors of high-quality medical plastics benefit from consistent demand from the many healthcare industries worldwide.

Medical plastics go through a variety of plastic fabrication and screening processes to produce a variety of standard-compliant medical devices and instruments, including sutures, dental instruments (suction tips, dam clamps, cotton roll holders, etc.), infusion bags, disposables (syringes), sterilization trays, and medical implants before being used in the healthcare manufacturing sector.

Increasing surgical, hospital, and outpatient operations, combined with the enforcement and upgrading of various infection prevention standards, are expected to fuel market growth. The price volatility of multiple resins, such as polyethylene (PE), polypropylene (PP), and polycarbonate (PC), has been significantly influenced by variations in oil prices. Changes in capacity have also influenced the market's price volatility.

In March 2021, U.S. President Joe Biden suggested allocating $400 billion over eight years to Medicaid to pay for at-home care for the elderly and disabled as well as raise carers' pay. Because home care lowers healthcare expenses and is more practical for patients, the COVID-19 epidemic has made it more desirable than nursing home settings. This is anticipated to raise the demand for home care medical consumables and devices, which can positively impact the market growth in the

Four geographical regions have been identified for the medical plastics market: North America, Asia-Pacific, Europe, and Rest of World (the Middle East and Africa, and Latin America). In 2022, the global market for medical plastics was dominated by the North American region. North America holds a 42.3% share of the global medical plastics market. A few of the main factors propelling the North American market are the existence of several domestic and foreign companies, the accessibility of resources, technological advancements, and the spike in demand for medical components.

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