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Medical Plastics Tubing Market, By Material (PVC, PE, PP, PA, PTFE, PEEK, TPE), Structure (Single-Lumen, Multi-Lumen, Co-Extruded, Tapered Tubing, Braided Tubing), Application (Bulk Disposable Tubing, Drug Delivery Systems) - Global Forecast To 2031

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Abstracts

The medical plastics tubing market is projected to reach USD 6.81 billion by 2031 from USD 4.83 billion in 2026 at a CAGR of 7.1% during the forecast period. The market is rapidly growing globally due to increased healthcare needs and the demand for safe, reliable, high-quality fluid and gas transfer solutions.

“Polyethylene (PE) is projected to be the second-largest material in the medical plastics tubing market during the forecast period.”

In the medical plastics tubing market, polyethylene (PE) is expected to be the second-largest segment, owing to its high performance, which is due to a good combination of flexibility, chemical resistance, and biocompatibility. PE has good physical-mechanical properties, low water absorption, and is easily processable. As a result, it is used in various pharmaceutical testing applications, such as fluid handling systems, IV tubing, and single-use medical appliances.

“Catheters & cannulas are projected to be the largest application of medical plastics tubing during the forecast period.”

Catheters and cannulas are utilized in both routine and critical medical procedures. Medical plastic tubing in these applications provides a safe and reliable method for delivering or removing drugs, fluids, or gases within the human body. Key factors driving the growth of this segment include the rising prevalence of chronic diseases, an

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increase in the number of surgeries, and a surge in minimally invasive procedures. Additionally, advancements in catheter and cannula design and materials, greater adoption of single-use medical plastic tubing products, and an increasing demand for biocompatible materials are further contributing to this segment's growth.

“North America is projected to be the largest region in the global medical plastics tubing market during the forecast period.”

North America is expected to be the largest market for medical plastics tubing during the forecast period. This is mainly because of the region's strong presence of highly developed healthcare infrastructure and the widespread use of innovative medical technologies. Also, the region has a well-established medical device manufacturing industry, rising healthcare spending, and increasing demand for minimally invasive procedures. The increasing number of individuals affected by chronic illnesses, the rise in home healthcare services, and a strong emphasis on patient safety and product quality are key factors driving market growth. Additionally, the presence of leading medical device companies in both the US and Canada, along with ongoing investments in research and development and advanced polymer technologies, have solidified North America's dominance in the global medical plastics tubing market.

Breakdown of Primary Interviews
By Company Type: Tier 1: 40%, Tier 2: 30%, and Tier 3: 30%
By Designation: Directors: 30%, Managers: 20%, and Others: 50%
By Region: North America: 20%, Europe: 10%, Asia Pacific: 40%, South America: 10%, and Middle East & Africa: 20%

Notes: Others include sales, marketing, and product managers.

Tier 1: >USD 1 Billion; Tier 2: USD 500 million–1 Billion; and Tier 3:

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