

Plastic Fittings and Tubing for Pharmaceutical and Medical Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 to 2032

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Abstracts

The Global Plastic Fittings And Tubing For Pharmaceutical And Medical Market was valued at USD 7.17 billion in 2023 and is projected to grow at a CAGR of 6.1% from 2024 to 2032, primarily driven by the rising demand for disposable medical devices. Rising concerns about infection control and cross-contamination are prompting healthcare providers to increasingly adopt single-use devices, such as IV sets, catheters, and drug delivery systems. These devices, equipped with plastic fittings and tubing, offer safe, sterile solutions that help reduce patient risks.

Biopharmaceutical advancements are also accelerating market growth, with the sector focusing more on biologics, vaccines, and personalized treatments. This shift has increased the need for sterile, contamination-free fluid handling systems, where plastic fittings and tubing play a vital role in ensuring cleanliness and preventing contamination during drug manufacturing and transfer. Offering flexibility, chemical resistance, and suitability for single-use, plastic components support the expanding biopharmaceutical production that meets global healthcare demands, driving innovation and market expansion.

In 2023, the tubing segment led the market, generating USD 4.01 billion in revenue and is expected to reach around USD 6.86 billion from 2024 to 2032. Plastic tubing is integral for fluid transfer in IV systems, drug delivery, and diagnostic equipment due to its flexibility, durability, and customization options, making it ideal for reliable, sterile fluid handling in medical environments.

Hospitals and clinics emerged as the largest end-use segment, capturing a 36% market share in 2023 and anticipated to grow at a CAGR of 6.4% through 2032. These facilities

rely heavily on disposable plastic parts for fluid management, IV therapy, drug administration, and diagnostics, prioritizing sterility and infection control.

In the U.S., the plastic fittings and tubing market for pharmaceuticals and medical applications surpassed USD 2.45 billion in 2023, with an estimated CAGR of 6.6% from 2024 to 2032. The advanced U.S. healthcare system, with its extensive network of hospitals, clinics, and specialized centers, drives significant demand for medical supplies, including plastic components essential for safe and efficient patient care.

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