

# **Pharmaceutical Polymers / Medical Polymers Market - Distribution by Type of Polymer (Thermoplastic Polymers, Elastomers, Thermoset Polymers and Others), Area of Application (Medical Devices, Excipients, Packaging and Others) and Key Geographical Regions (North America, Europe, Asia-Pacific, Latin America, and Middle East and North Africa): Industry Trends and Global Forecasts, 2023-2035**

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## **Abstracts**

The global pharmaceutical polymer / medical polymers market is expected to reach USD 20 billion in 2023 anticipated to grow at a CAGR of 7.3% during the forecast period 2023-2035.

Polymers, composed of diverse monomers, constitute an exceptionally adaptable class of materials. They are categorized as natural or synthetic based on their origins. Synthetic polymers encompass thermoplastics, elastomers, and fibers, while natural ones include substances like natural rubber, bio-based polymers, and wood. These materials possess economic feasibility, exceptional durability, chemical resistance, significant strength, and lightweight properties, making them highly valuable across a range of industries such as automotive, agriculture, construction, electronics, medicine, and textiles.

Within the medical sphere, polymers play a pivotal role. Medical-grade polymers serve multifaceted purposes in drug development and manufacturing. They aid in improving drug solubility, stability, and taste, as well as encapsulating drugs to mitigate unpleasant

flavors. These polymers also facilitate the development of sustained-release drug delivery systems, ensuring controlled release over time or targeted delivery to specific tissues. Additionally, they form the basis of various medical devices like artificial joints, biosensors, dental implants, microfluidic devices, orthopedic implants, and stents.

In the realm of tissue engineering, pharmaceutical polymers wield substantial influence. They contribute to fabricating scaffolds that assist in repairing damaged tissues and wound care. Moreover, medical-grade polymers play a crucial role in 3D bioprinting, enabling the creation of hydrogels and bioinks used for generating soft tissues and supportive structures. The notable advancements in this field, coupled with a growing demand for innovative therapies and medical devices, anticipate significant growth in the global pharmaceutical and medical polymers market in the foreseeable future.

## Report Coverage

An executive summary of the insights captured during research. It offers a high-level view on the current state of the pharmaceutical polymers / medical polymers market and its likely evolution in the mid-long term.

A brief overview of polymers, their historical background and properties, such as physical, chemical and mechanical. It also provides information on the different types of polymers (based on a variety of parameters) and their applications in the pharmaceutical / medical domain.

A detailed assessment of the overall market landscape of companies manufacturing pharmaceutical polymers / medical polymers, based on several relevant parameters, such as year of establishment, company size, location of headquarters, source of polymer, composition of polymer, type of polymer, method of processing, method of sterilization, and area of application.

A competitiveness analysis of pharmaceutical polymer / medical polymer manufacturers based in North America, Europe, Asia-Pacific and rest of world. The analysis compares various manufacturers based on supplier power (in terms of number of years of experience), service portfolio strength (in terms of source of polymer, number of types of polymers, number of application area and biodegradability of polymers) and number of compositions of polymer.

Detailed profiles of key players engaged in the manufacturing of pharmaceutical polymers / medical polymers (shortlisted based on proprietary criteria) based in

North America, Europe and Asia. Each profile features a brief overview of the company, along with information on its pharmaceutical polymers / medical polymers focused portfolio, recent developments and an informed future outlook.

A detailed analysis of the partnerships inked between stakeholders engaged in this domain, since 2019, based on several relevant parameters, such as year of partnership, type of partnership, composition of polymer, type of polymer, area of application, type of partner, most active players (in terms of number of partnerships) and regional distribution of partnership activity.

An insightful analysis of the leading pharmaceutical polymer / medical polymer manufacturers, considering the affiliated factors, key drivers, and challenges under the DELT framework, highlighting the relative effect of each factor of DELT parameter on the pharmaceutical polymer / medical polymer manufacturers.

An overview of recent emerging trends in the domain of pharmaceutical polymers / medical polymers, highlighting information on the novel polymers (such as biodegradable polymers and smart polymers) and the polymer recycling initiatives adopted by manufacturers for maintaining a sustainable environment.

Distribution of the future opportunity across, type of polymer (thermoplastic polymers, elastomers, thermoset polymers and others), area of application (medical devices, excipients, packaging and others) and geographical regions (North America, Europe, Asia-Pacific, Latin America, Middle East and North Africa, and Rest of the world). In order to account for future uncertainties associated with some of the key parameters and to add robustness to our model, we have provided three market forecast scenarios, portraying the conservative, base and optimistic scenarios of the industry's evolution.

## Key Market Companies

Americhem

Borealis

Celanese

Corel Pharma Chem

Eastman

Henkel

KRAIBURG TPE

Kuraray

Lubrizol Life Science

LyondellBasell

Phon Tech

SEQENS

Sumitomo Chemical

Solvay

Zylog ElastoComp

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