

# Global Medical Elastomers Market Outlook to 2027

<https://marketpublishers.com/r/G3C0FDDCC8DCEN.html>

Date: January 2022

Pages: 161

Price: US\$ 4,490.00 (Single User License)

ID: G3C0FDDCC8DCEN

## Abstracts

Medical Elastomers are long polymer chain cross-linked polymers having a viscosity as well as elasticity, where the atoms are held together by weak intermolecular forces, generally exhibiting low Young's Modulus and a high yield strength or high failure strain having mainly oxygen, hydrogen, and silicone as the chemical components with approximately 3,000 to 10,000 repeating units, and thus high polymer chain flexibility. According to BlueQuark Research & Consulting, the global Medical Elastomers market is expected to witness a significant growth rate during the forecasted period. Factors like the increasing use of Medical Elastomers in producing disposable medical equipment like syringes, valves, or tubing are expected to drive the global medical elastomers market. Further, the increasing demand for medical elastomers for manufacturing critical implants used in life-saving organs like artificial heart valves, valves, and joints is projected to drive the global medical elastomers market. Furthermore, the use of medical elastomers for making gloves and other personal protective equipment is expected to drive the global medical elastomers industry. However, factors like stringent government regulations regarding the use of single-use plastic, environmental hazards regarding the disposal and use of polymers, and fluctuating raw material prices are expected to hinder the medical elastomers' market growth.

The Medical Component Industry is the primary consumer of Medical Elastomer where its use is projected to drive the Global Market. The most important reason for using synthetic materials in medicine is hygiene -synthetic disposables can be used to replace medical instruments made out of other materials. Another vital aspect is biocompatibility wherein, on the one hand, the synthetic material may not be harmful to the patient as well as the properties of the synthetic material may not be affected by the biological environment where it is used, thus driving the demand for elastomers from the medical industry. Further, elastomers are also used to design medical products where superior performance and safety are required the most. Growing awareness for better medical

facilities and ascending demand for medical devices incorporating thermoset elastomers and thermoplastic elastomers are driving the market growth. With the growing consumption of single-use medical devices like medical tubes and medical bags, the surging demand for medical implants among the aging population also contributes to the growth of the Medical Elastomers' market share globally. Apart from tubes, other elastomers applications, including implants and prosthetics, mainly dental implants filling oral cavities or replacing them with a concrete solution, are estimated to drive the demand for Medical Elastomers. Furthermore, the other important use of medical elastomers comes in the form of personal protective equipment, which has skyrocketed during the pandemic since it prevents any contamination to either the patient or the surgeon, driving the demand for medical elastomers. Thus all the factors have added to the growth of the global Medical Elastomers market.

Some of the market's key players are The 3M Company , SABIC , BASF SE , DuPont de Nemours, Inc. , Eastman Chemical Company , Koninklijke DSM N.V. , Trelleborg AB , among others.

The Asia Pacific region is poised to be the leader in the global production and then the subsequent consumption of medical elastomers, with most of the consumption in the populated areas and countries, including South Asia and China. Constantly ascending population, urbanization and awareness have all combined with being the fact of more excellent medical knowledge of the patients and the doctors which have led to better medical facilities doing timely tests and increasing life expectancy of the people living in the regions. Increased investment from the public & private sectors to improve health infrastructure in the countries is also predicted to generate a call for medical devices, which will drive the expansion of the medical elastomers market in the region.

Technological advancements in the thermoplastic elastomer processing industry have made these elastomers an ideal choice for manufacturing medical devices, leading to a growing call for thermoplastic medical elastomers in medical devices. The major factors driving the global medical elastomers market are the advancements in the thermoplastic elastomers processing industry, increasing demand of elastomers in the medical industry, growing awareness of high-quality healthcare facilities, and rising demand of medical devices incorporating elastomers.

Further, the government's initiatives to enhance the quality of healthcare and increasing the life expectancy of the countries have all been the factors of growing demand for medical elastomers. Furthermore, the rising awareness of the benefits of medical implants, increasing global aging population, rapid advancements in thermoplastic elastomer processing technologies, rising preference for recyclable polymers, and

increasing areas of application for silicone-based elastomers are some key factors driving the growth of the Global Medical Elastomers market. The growing prevalence of chronic diseases, rapidly growing global aging population, an increasing number of advanced medical facilities, and rising demand for single-use medical devices such as tubes, syringes, medical bags, and others are driving the growth of the global Medical elastomers market.

In August 2021, LG Chem Ltd. was building ten new eco-friendly plants to boost battery material production, renewable, and bio sectors for USD 2.2 Billion.

In June 2021, Celanese Corporation acquired Exxon Mobil Corporation's Santoprene TPV Elastomers business for USD 1.5 Billion.

In May 2021, ENEOS Corporation acquired JSR Corporation's global elastomers business, which includes the manufacture and sale of synthetic rubber for USD 1.05 Billion.

Global Medical Elastomers Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Medical Elastomers market by segmenting based on the Type (Thermoset Elastomers, Thermoplastic Elastomers), Production Method (Extrusion Tubing, Compression Molding, Injection Molding, Others), Application (Medical Tubes, Catheters, Gloves, Implants, Others), and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints and the impact of Covid-19 on the market growth in detail. The study covers and includes emerging market trends, developments, opportunities, gross margin, and challenges in the industry during the forecast period. This report also covers extensively researched competitive landscape sections with prominent companies and profiles, including their market shares and projects.

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3M Company

le Nemours, Inc.

Chemical Company

le DSM N.V.

g AB

ve Performance Materials Inc.

pany, Inc.

e Corporation

orporation

pex Company

Co. Ltd

Corporation

A

omedical Co., Ltd

lc

oup Ltd.

AG

n Corporation

Corporation



*Companies is not exhaustive*

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