

# **Polymer Gel Market Report by Raw Material (Polyacrylic Acid, Polyacrylamide, Polyvinyl Alcohol, Polyacrylonitrile, Silicone, and Others), Application (Personal Care, Agriculture, Construction, Drug Delivery System, Waste Treatment), and Region 2024-2032**

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## **Abstracts**

The global polymer gel market size reached US\$ 51.8 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 83.8 Billion by 2032, exhibiting a growth rate (CAGR) of 5.3% during 2024-2032.

A polymer gel is an elastic cross-linked polymer network of three dimensions. It is a soft and wet material capable of undergoing large deformations like growing and shrinking in huge volumes. It undergoes deformation by external stimuli, such as the potential of hydrogen (pH), temperature, and ionic strength. It is primarily utilized in actuators, sensors, modulators for the delivery of drugs and keeping different polymers separated. Besides this, it is also utilized in robotics, petrochemicals, paints and coatings, and chemical manufacturing across the globe.

### **Polymer Gel Market Trends:**

Significant increase in the utilization of polymer gel on account of its low tack, effective absorbent, and non-oily properties represents one of the key factors bolstering the market growth. It is also employed in the personal care and cosmetic sectors for preparing facial masks, mascaras, cuticle coats, and clear gels. Besides this, there is a considerable rise in the demand for polymer-based biodegradable products in the agricultural sector around the world for reducing the use of fertilizers, improving water

retention quality of crops, and minimizing the overall cost of irrigation. Additionally, the growing implementation of smart farming techniques is contributing to the sales of polymer gel. Moreover, increasing product utilization in the robotics industry for the manufacturing of artificial muscles and robotic actuators is acting as another growth-inducing factor. Furthermore, the key players are focusing on developing newer technologies and improving the formulations of the final products. They are also heavily investing in research and development (R&D) activities, which is creating a favorable market outlook. Other major factors, including the increasing industrialization and rising spending capacity of the population, are anticipated to strengthen the market growth.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global polymer gel market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on raw material and application.

#### Breakup by Raw Material:

- Polyacrylic Acid
- Polyacrylamide
- Polyvinyl Alcohol
- Polyacrylonitrile
- Silicone
- Others

#### Breakup by Application:

- Personal Care
- Agriculture
- Construction

Drug Delivery System

Waste Treatment

#### Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being 3M Company, Ashland LLC, BASF SE, Chemtex Speciality Limited, Dow Inc, Evonik Industries AG, LG Chem, Nippon Shokubai Co. Ltd, Sanyo Chemical Industries Ltd. and SUMITOMO SEIKA CHEMICALS CO. LTD.

#### Key Questions Answered in This Report

1. How big is the global polymer gel market?
2. What is the expected growth rate of the global polymer gel market during 2024-2032?
3. What are the key factors driving the global polymer gel market?
4. What has been the impact of COVID-19 on the global polymer gel market?
5. What is the breakup of the global polymer gel market based on the application?
6. What are the key regions in the global polymer gel market?

7. Who are the key players/companies in the global polymer gel market?

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