

# Global Smart Polymers Market 2022-2028

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## Abstracts

Smart polymer is a kind of polymeric materials which can undergo reversible or irreversible changes of their physical properties and/or chemical structure when their external environment changes slightly. In 2021, the global smart polymers market stood at USD 1,425 million. Recording a CAGR of 17.1% from 2022 to 2028, the worth is projected to reach ~USD 4,302 million by 2028, according to a new report by Gen Consulting Company.

The report provides in-depth analysis and insights regarding the current global market scenario, latest trends and drivers into global smart polymers market. It offers an exclusive insight into various details such as market size, key trends, competitive landscape, growth rate and market segments. This study also provides an analysis of the impact of the COVID-19 crisis on the smart polymers industry.

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the stimuli type, application, end user, and region. The global market for smart polymers can be segmented by stimuli type: dual stimuli, multiple stimuli, self-healing, shape memory, single stimuli, others. The self-healing segment captured the largest share of the market in 2021. Smart polymers market is further segmented by application: additives, coatings and paints, films, gels, others. The gels segment held the largest share of the global smart polymers market in 2021 and is anticipated to hold its share during the forecast period. Based on end user, the smart polymers market is segmented into: automotive, biomedical and biotechnological, building and construction, packaging, personal care and cosmetics, textiles, others. In 2021, the building and construction segment made up the largest share of revenue generated by the smart polymers market. On the basis of region, the smart polymers market also can be divided into: Asia Pacific, Europe, North America, Rest of the World (RoW). Among these, North America was accounted for the highest revenue generator in 2021.

By stimuli type:

dual stimuli

multiple stimuli

self-healing

shape memory

single stimuli

others

By application:

additives

coatings and paints

films

gels

others

By end user:

automotive

biomedical and biotechnological

building and construction

packaging

personal care and cosmetics

textiles

others

By region:

Asia Pacific

Europe

North America

Rest of the World (RoW)

The biomedical and bioengineering market is further segmented into artificial muscles, biocatalysts, drug delivery systems, gene therapy, glucose sensors, tissue engineering, others. According to the research, the drug delivery systems segment had the largest share in the global smart polymers market.

The report also provides a detailed analysis of several leading smart polymers market vendors that include Advanced Polymer Materials Inc., Autonomic Materials, Inc. (AMI), BASF SE, Covestro AG, Dow Inc., Evonik Industries AG, Exxon Mobil Corporation, Lubrizol Corporation (Berkshire Hathaway Inc.), among others.

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Historical & Forecast Period

This research report provides analysis for each segment from 2018 to 2028 considering 2021 to be the base year.

Scope of the Report

To analyze and forecast the market size of the global smart polymers market.

To classify and forecast the global smart polymers market based on stimuli type, application, end user, region.

To identify drivers and challenges for the global smart polymers market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global smart polymers market.

To identify and analyze the profile of leading players operating in the global smart polymers market.

### Why Choose This Report

Gain a reliable outlook of the global smart polymers market forecasts from 2022 to 2028 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

Print authentication provided for the single-user license.

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Rest of the World (RoW)

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Autonomic Materials, Inc. (AMI)  
BASF SE  
Covestro AG  
Dow Inc.  
Evonik Industries AG  
Exxon Mobil Corporation  
Lubrizol Corporation (Berkshire Hathaway Inc.)

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