

Global Dielectric Elastomers Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030

<https://marketpublishers.com/r/G1F2F8033740EN.html>

Date: April 2024

Pages: 173

Price: US\$ 3,950.00 (Single User License)

ID: G1F2F8033740EN

Abstracts

Summary

Dielectric elastomers are made of a highly stretchable elastomeric film (mostly Silicone Rubber Elastomer, Acrylate Elastomer or Polyurethane Elastomer) as a dielectric, which is coated on both sides with highly flexible electrodes of graphite or carbon black.

Dielectric elastomers (DEs) are smart material systems that produce large strains. They belong to the group of electroactive polymers (EAP). DE actuators (DEA) transform electric energy into mechanical work. They are lightweight and have a high elastic energy density. They have been investigated since the late 1990s. Many prototype applications exist.

The dielectric elastomer consists of a polymer flexible film sandwiched between upper and lower layers of flexible electrodes, developed and developed by SRI International, a non-profit international research organization, in the second half of 1991. In the external electrical stimulation, the dielectric elastomer can change the shape or volume; when the external electrical stimulation is removed, the dielectric elastomer can restore to the original shape or volume, resulting in stress and strain to convert electrical energy into mechanical energy.

Dielectric elastomers are characterized by large electrical deformation, high energy density, fast response, low viscoelastic hysteresis (mechanical) loss, and high conversion efficiency. They are mainly used for the production of lightweight, miniaturized and high-precision actuators. Potential of an intelligent material. Dielectric elastomer actuator principle was first proposed by Wilhelm Conrad Röntgen in 1880, the

voltage applied to the electrode 2, the resulting two-electrode charge between the opposite sex electrostatic attraction in the direction of film thickness of the elastic film; In the horizontal direction, the electrostatic repulsion of the same-sex charge expands the film on the single-sided electrode, resulting in variations in thickness and area: the thickness decreases and the area expands.

Dielectric elastomers and inherently conductive polymers (ICP), inherently dissipative polymers, conductive plastics and ferroelectrets adds up to total electroactive polymers market. The electroactive polymers (EAP) are part of the broad group of smart materials. The use of polymers with electroactive response has only emerged in the last decade with the introduction of new materials which have significant displacement levels. These materials are highly attractive for their low-density, large strain capability, superior spectral response and resilience. In general, the biggest advantages over conventionally used systems in most application fields are the intermittent displacement they can provide, an adaptable stiffness combined with variable size and form factors from micrometres to metres.

According to APO Research, The global Dielectric Elastomers market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

The US & Canada market for Dielectric Elastomers is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Dielectric Elastomers is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The China market for Dielectric Elastomers is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Dielectric Elastomers is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of Dielectric Elastomers include Festo and The Soft Robotics Toolkit etc. In 2023, the world's top three vendors accounted for approximately

% of the revenue.

In terms of production side, this report researches the Dielectric Elastomers production, growth rate, market share by manufacturers and by region (region level and country level), from 2019 to 2024, and forecast to 2030.

In terms of consumption side, this report focuses on the sales of Dielectric Elastomers by region (region level and country level), by company, by type and by application. from 2019 to 2024 and forecast to 2030.

This report presents an overview of global market for Dielectric Elastomers, capacity, output, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Dielectric Elastomers, also provides the consumption of main regions and countries. Of the upcoming market potential for Dielectric Elastomers, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Dielectric Elastomers sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Dielectric Elastomers market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by type and by application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Dielectric Elastomers sales, projected growth trends, production technology, application and end-user industry.

Dielectric Elastomers segment by Company

Festo

The Soft Robotics Toolkit

Dielectric Elastomers segment by Type

Silicone Rubber Elastomer

Acrylate Elastomer

Polyurethane Elastomer

Others

Dielectric Elastomers segment by Application

Dielectric Elastomer Actuators

Dielectric Elastomer Generators

Dielectric Elastomer Sensors

Dielectric Elastomers segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Study Objectives

1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, capacity, production, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify significant trends, drivers, influence factors in global and regions.
6. To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Dielectric Elastomers market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Dielectric Elastomers and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market.
5. This report helps stakeholders to gain insights into which regions to target globally.
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Dielectric Elastomers.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1: Provides an overview of the Dielectric Elastomers market, including product definition, global market growth prospects, production value, capacity, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Dielectric Elastomers industry.

Chapter 3: Detailed analysis of Dielectric Elastomers market competition landscape. Including Dielectric Elastomers manufacturers' output value, output and average price from 2019 to 2024, as well as competition analysis indicators such as origin, product type, application, merger and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 7: Production/Production Value of Dielectric Elastomers by region. It provides a quantitative analysis of the market size and development potential of each region in the

next six years.

Chapter 8: Consumption of Dielectric Elastomers in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Concluding Insights of the report.

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