

Graphene Market by Type (Mono-layer & Bi-layer Graphene, Few Layer Graphene, Graphene Oxide, and Graphene Nano Platelets), and Application (RFID, Composites, Sensors, Research & Development, Energy storage, Functional ink, and Polymer additives, Tire, Coatings, and Others): Global Opportunity Analysis and Industry Forecast 2020–2027

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Abstracts

The global graphene market size valued at \$87.5 million in 2019, and is projected to reach \$876.8 million by 2027, growing at a CAGR% of 40.2% from 2020 to 2027.

Graphene is an incredibly thin, heavy substance composed of a single layer of carbon atoms. This has many uses such as metrology, biotechnology, electronic and photonic high frequency transistors. Graphene can withstand high electric current density and is impermeable to any heat. Graphene is hundredfold stronger than steel. This is a strong electric and heat conductor. In the most important industries, such as oil, composites, and electronics, high electronic mobility and permeability like a quality rendered graphene is used significantly.

The global graphene market is driven primarily by growing demand for graphene in the electronic sector. In addition, the rising use of graphene in the energy industry is expected to boost the size of the market in the coming years. The growth is due to the high quality of electrical mobility and permeability. However, stringent health-related rules and regulations may restrict business development. Nonetheless, ongoing research and development activities relating to graphene are expected over the next

few years to generate new prospects for the major manufacturers in the market.

The global graphene market is segmented based on type, application, and region. By type, the market is classified into mono-layer & bi-layer graphene, few layer graphene (FLG), graphene oxide (GO), and graphene nano platelets (GNP). According to application, it is divided into RFID, composites, sensors, R&D, energy storage, functional ink, and polymer additives, tire, coatings, and others. Based on region, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

KEY BENEFITS FOR STAKEHOLDERS

The report provides an extensive qualitative and quantitative analysis of the current trends and future estimations of the global graphene market from 2019 to 2027 to determine the prevailing opportunities.

A comprehensive analysis of the factors that drive and restrict the growth of the market is provided.

Estimations and forecast are based on factors impacting the market growth, in terms of both value and volume.

Profiles of leading players operating in the market are provided to understand the global competitive scenario.

The report provides extensive qualitative insights on the significant segments and regions exhibiting favorable market growth.

KEY MARKET SEGMENTS

By Type

Mono-layer & Bi-layer Graphene

Few Layer Graphene (FLG)

Graphene Oxide (GO)

Graphene Nano Platelets (GNP)

By Application

RFID

Composites

Sensors

Research & Development

Energy storage

Functional ink

Polymer additives

Tire

Coatings

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Spain

Rest of Europe

Asia-Pacific

China

India

South Korea

Japan

Australia

Rest of Asia Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

KEY MARKET PLAYERS

ACS Material LLC

Bluestone Global Tech

CVD Equipment Corporation

Graphene Nanochem PLC

Graphenea S.A.

G6 Materials

Haydale Limited

Nanotek Instruments Inc.

Vorbrck Materials

XG Sciences

India Specific Company Players

KNV'S Incorporation (KNV'S Inc.)

Carborundum Universal Limited (CUMI)

Hexorp

AVANSA Technology & Services (AVANSA)

Ad-Nano Technologies Pvt Ltd. (Ad-Nano)

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