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# Conductive Plastic Compounds Market: Segmented by Type (Polystyrene, Polypropylene, Polyethylene, Engineering Plastics, Polyamide, Polycarbonate and Others), By End user (Automotive & Transportation, Building & Construction, Consumer Goods & Appliances, Electrical & Electronics, Industrial Applications, Medical and Others), and Region – Global Analysis of Market Size, Share & Trends for 2019–2020 and Forecasts to 2030

https://marketpublishers.com/r/C5B6E17D72CAEN.html
Date: November 2021
Pages: 179
Price: US$ 5,000.00 (Single User License)
ID: C5B6E17D72CAEN

## Abstracts

[173+ Pages Research Report] Global Conductive Plastic Compounds Market to surpass USD 16.2 billion by 2030 from USD 7.6 billion in 2020 at a CAGR of 10.2% in the coming years, i.e., 2021-30.

Product Overview
Conductive plastics are electrically conductive and contain semiconductor or metallic conductor qualities. Conducting polymers, which are created by organic polymers to conduct electricity, are the most common type of plastic. These compounds are dependable and provide static discharge and electrostatic discharge protection (ESD). Because organic polymers are less expensive and lighter than traditional materials like metals and ceramics, they are widely used in a variety of industrial applications. These are organic compounds that act as insulators but also have the ability to conduct electricity. Carbon fibers and stainless-steel fibers are mixed into the plastic composition to create conductive plastics. Various doping levels can be used to achieve a wide range of conductivity in these polymers. These polymers offer mechanical features including flexibility and thermal stability, and they're commonly utilized in the electrical

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and electronics industries to create electric conductivity in electronic devices.

Market Highlights
Global Conductive Plastic Compounds market is expected to project a notable CAGR of 10.2% in 2030.

The market is predicted to rise due to an increase in the manufacture of electrical components and electronic gadgets. Furthermore, rising demand for conductive plastic compounds from the packaging, construction, and automotive industries is expected to propel the conductive plastic compounds market forward. Filler material technology advances are projected to open up attractive potential for the industry.

Global Conductive Plastic Compounds: Segments
Engineering Plastics segment to grow with the highest CAGR during 2020-30

Global Conductive Plastic Compounds market is segmented by type into Polystyrene, Polypropylene, Polyethylene, Engineering Plastics, Polyamide, Polycarbonate, and Others. Engineering Plastics segment held the largest market share in the year 2020. During the projection period, the category is expected to maintain its dominance because to its exceptional physical qualities, which enhance its performance in a variety of automotive, electronics, industrial, medical, and consumer goods applications. During the forecast period, the segment's market attractiveness is expected to be high.

Electrical & Electronics segment to grow with the highest CAGR during 2020-30

Global Conductive Plastic Compounds market is divided by end-user into Automotive & Transportation, Building & Construction, Consumer Goods & Appliances, Electrical & Electronics, Industrial Applications, Medical, and Others. In 2020, the Electrical & Electronics sector is expected to lead the global market in terms of value. The electronics manufacturing business has seen significant transformations in recent years, and these changes show no signs of abating anytime soon. The requirement for innovative and dependable production equipment has increased as the complexity of electronic assemblies and component shrinking has increased. Electronics demand continues to climb, owing to a variety of factors including increased usage of electronic devices in daily life, shorter product life cycles, and technological improvements in a variety of industries, including consumer, industrial, and automotive electronics. Electric and electronic items are becoming more prevalent in a variety of end-use sectors. In the near future, an increase in the production of such high-quality electric and electronic components is projected to increase demand for plastic compounds.

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Market Dynamics
Drivers

Increasing technological advancements and demand in various industries

The excellent adaptability of these polymers in electrical devices and bio-sensors has boosted the conductive plastics sector. Shielding sensitive electronic devices is a common application for electrically conductive plastics. Furthermore, conductive polymers are utilized in displays, solar cells, MEMS, OLEDs, printed electronic circuits, batteries, actuators, and other electronic components in the electronics sector, which is likely to grow the conductive plastic market. Manufacturers and research organizations are pouring money into conductive polymers R&D in order to find new uses in a variety of fields.

Exceptional physical characteristics and thermal conductivity

Because of their outstanding physical qualities, conductive plastic compositions incorporating nano-fillers, such as carbon nanotubes, are in high demand. Carbon nanotube-based conductive plastic composites are dependable for applications requiring electrostatic discharge protection, static charge dissipation, and efficient thermal management. Because of its electrical and thermal conductivity, carbon nanotube-based conductive plastic composites are largely used in heat exchangers and fuel cells. The electrical and electronics industries' high use of conductive plastic compounds is expected to drive the worldwide conductive plastic compounds market during the projected period. Furthermore, the growing trend of miniaturization in the automotive, healthcare and electronics sectors has bolstered the conducting polymer industry's market growth on a massive scale, with the industry's market share predicted to expand during the projection period. Conductive polymers are extensively used in the aerospace and defense industries. These are utilized in radar absorptive coatings on sheath aircraft, as well as in airliner composite fuselages for lightning protection.

Restraint
High-cost fluctuations of crude oil and petrochemicals

Compounding uses three primary ingredients or raw materials: polymers, additives, and fillers. Polyamide, polycarbonate, polymethyl methacrylate, and a variety of other polymers are examples of polymers. Plastic compound prices have been steadily growing, owing to price fluctuations in petrochemicals and the great substitution

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potential of their bio-based competitors. The conductive plastic compounds market is expected to be hampered by price fluctuations in petrochemicals over the projected period. The price of conductive plastic compounds is affected by changes in crude oil prices. It has an impact on the use of conductive polymeric compounds as well.

Global Conductive Plastic Compounds: Key Players
Sabic

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

The Dow Chemical Company
Total SA
Repsol SA
BASF SE
Bayer Material Science
ENI S.P.
Ineos Group AG
Royal DSM
Other Prominent Players
Global Conductive Plastic Compounds: Regions
Global Conductive Plastic Compounds market is segmented based on regional analysis into five major regions: North America, Latin America, Europe, Asia Pacific, and the Middle East and Africa. The market in APAC is expected to hold highest CAGR over the forecasted period. Due to the high rate of adoption of conductive plastic compounds in electrical and electronics applications in China, the country is a key user of conductive plastic compounds in Asia Pacific. In addition, China is the region's biggest manufacturer of conductive plastic compounds. The conductive plastic compounds market in Asia Pacific is expected to be driven by the presence of large electrical and electronic component makers as well as a variety of small domestic plastic compound producers. Plastic compounders in Asia Pacific are expanding their manufacturing facilities to suit the region's growing demand for conductive plastic compounds in a variety of end-use sectors. During the forecast period, demand for conductive plastic compounds in Asia Pacific is expected to rise due to rapid industrialization and growth of electrical and electronic component manufacturing plants in India, South Korea, Thailand, and Vietnam.

Global Conductive Plastic Compounds is further segmented by region into:

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North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada
Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil, and Rest of Latin America
Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey, and Rest of Europe
Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia, and Rest of APAC
Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa, and Rest of MENA
Global Conductive Plastic Compounds report also contains analysis on:
Conductive Plastic Compounds Segments:

By Type
Polystyrene
Polypropylene
Polyethylene
Engineering Plastics
Polyamide
Polycarbonate
Others
By End-User
Automotive & Transportation
Building & Construction
Consumer Goods & Appliances
Electrical & Electronics
Industrial Applications
Medical
Others
Conductive Plastic Compounds Dynamics
Conductive Plastic Compounds Size
Supply & Demand
Current Trends/Issues/Challenges
Competition & Companies Involved in the Market
Value Chain of the Market
Market Drivers and Restraints

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# Conductive Plastic Compounds Market Report Scope and Segmentation

| Report Attribute | Details |
| --- | --- |
| Market size value in 2020 | USD 7.6 billion |
| Revenue forecast in 2030 | USD 16.2 billion |
| Growth Rate | CAGR of 5.4% from 2021 to 2030 |
| Base year for estimation | 2020 |
| Quantitative units | Revenue in USD million and CAGR from 2021 to 2030 |
| Report coverage | Revenue forecast, company ranking, competitive landscape, growth factors, and trends |
| Segments covered | Type, end-user, and Region |
| Regional scope | North America, Europe, Asia Pacific, Latin America, Middle East & Africa (MEA) |
| Key companies profiled | Sabic, The Dow Chemical Company, Total SA, Repsol SA, BASF SE, Bayer Material Science, ENI S.P.A, Ineos Group AG, Royal DSM, and Other Prominent Players |

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## 13. COMPANY PROFILE

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## 14. CONSULTANT RECOMMENDATION

**The above given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.

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