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3D Printing Materials Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

https://marketpublishers.com/r/366EF543ECEAEN.html
Date: May 2022
Pages: 142
Price: US$ 2,499.00 (Single User License)
ID: 366EF543ECEAEN

Abstracts

The global 3D printing materials market reached a value of US$ 1.91 Billion in 2021. Looking forward, IMARC Group expects the market to reach a value of US$ 5.67 Billion by 2027, exhibiting a CAGR of 18.60% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

Three-dimensional (3D) printing, also known as digital fabrication technology and additive manufacturing (AM), refers to the process of creating a physical object from a digital design. It utilizes different materials, such as plastics, epoxy resins, ceramics, metals, carbon fibers, graphite and graphene, nitinol, and paper. It allows rapid prototyping, which is the fast fabrication of a physical part, model, or assembly using 3D computer aided design (CAD). It currently finds extensive applications in the automotive, electronics, and healthcare industries for mass customization and the production of open-source designs. As a result, the demand for 3D printing materials is rising across the globe.
3D Printing Materials Market Trends:
Hearing aids manufacturers are increasingly relying on 3D printing to create prototypes and mass produce their products using custom scans. This, in confluence with rising technological advancements, represents one of the key factors bolstering the growth of the market. Moreover, biomaterials used in biomedical 3D printing technology, such as metals, ceramics, hard polymers and composites, are rigid. These materials are utilized in orthopedic and dental applications as they can produce customized solutions on account of their inherent structural and morphological characteristics. Besides this, polyethylene glycol diacrylate (PEGDA), acrylonitrile butadiene styrene (ABS), flexible

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photopolymers, silicone, and elastomer-based materials are the most commonly used 3D printing materials in robotics. Furthermore, 3D printing technology offers freeform fabrication, sustainable and efficient manufacturing, and a shorter time from design to production as compared to subtractive or conventional manufacturing technology. In addition, it does not require molds for manufacturing parts, which results in time and cost savings. These benefits, coupled with the thriving aviation industry, are anticipated to create a positive outlook for the market.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each sub-segment of the global 3D printing materials market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on type, form and end user.

Breakup by Type:

Polymers
Acrylonitrile Butadiene Styrene (ABS)
Polylactic Acid (PLA)
Photopolymers
Nylon
Others
Metals
Steel
Titanium
Aluminum
Others
Ceramic
Silica Sand
Glass
Gypsum
Others
Others
Laywood
Paper
Others

Breakup by Form:
Powder

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Filament
Liquid

Breakup by End User:

Consumer Products
Aerospace and Defense
Automotive
Healthcare
Education and Research
Others

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:

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The competitive landscape of the industry has also been examined along with the profiles of the key players being 3D Systems Inc., Arkema S.A., Carbon Inc., Clariant AG, EOS, Formlabs, H?gan?s AB, Markforged, Materialise NV, Sandvik AB, Stratasys Ltd. and Taulman3d LLC.

Key Questions Answered in This Report:

How has the global 3D printing materials market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global 3D printing materials market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the form?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global 3D printing materials market and who are the key players?

What is the degree of competition in the industry?

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