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3D Printing Filament Market By Material Type (Metals, Plastics, Alloys, Ceramics) , By End-Use Industry (Automotive, Aerospace and Aviation, Household Equipment, Petrochemical, Medical, Electronics, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2031

https://marketpublishers.com/r/3C5DC467A370EN.html
Date: July 2024
Pages: 350
Price: US$ 2,655.00 (Single User License)
ID: 3C5DC467A370EN

Abstracts

3D Printing Filament Market

The 3D printing filament market was valued at $0.9 billion in 2023 and is projected t%li%reach $2.3 billion by 2031, growing at a CAGR of 12.8% from 2024 t%li%2031.

3D printing filament is a form of thermoplastic material utilized in 3D printers as a feedstock for fused deposition modelling technology. It is the most used filament in printers due t%li%its affordability, ease of use, and non-toxic properties. There are different types of filaments, some of which include acetonitrile butadiene styrene, polylactic acid, high impact polystyrene, nylon, polyvinyl alcohol, thermoplastic polyurethane, and acrylonitrile styrene acrylate. The filament is utilized for diverse applications, including prototyping, manufacturing, medical devices, and consumer goods.

Increase in the utility of 3D printers across diverse sectors such as automotive, healthcare, aerospace, and consumer goods, is a major driver of the 3D printing filament market. In addition, advancements in technology have led t%li%improvements in the efficacy of the filament, offering enhanced durability, and better quality during the printing process. This is further augmenting the market growth. With growing adoption of 3D printers and rising environmental concerns, the usage of eco-friendly 3D printing

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filaments is trending. Such eco-friendly filaments include recycled polyethylene terephthalate and bio-based or biodegradable filaments such as those derived from cassava, cornstarch, and sugar beets.

However, several 3D filaments such as polylactic acid and acrylonitrile butadiene styrene lack the intense mechanical strength required in robust industrial applications. This limits the adoption of filaments and hampers the growth of the 3D printing filament market. Moreover, the utility of 3D printing filaments is subject t%li%stringent government regulations in different regions, which presents challenges for the expansion of the market across various sectors. For instance, the Federal Food, Drug, and Cosmetic Act in the U.S. strictly monitors the materials that involve close contact with drugs, food, or cosmetics. Hence, the usage of 3D printed objects for these substances depends upon compliance with the guidelines established by the Food and Drug Administration.

Segment Review

The 3D printing filament market is segmented int%li%material type, end-use industry, and region. On the basis of material type, the market is divided int%li%metals, plastics, alloys, and ceramics. Depending on end-use industry, it is classified int%li%automotive, aerospace & aviation, household equipment, petrochemical, medical, electronics, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of material type, the plastics segment is expected t%li%maintain its lead position during the forecast period.

Depending on end-use industry, the aerospace segment is anticipated t%li%acquire a high stake in the market during the forecast period.

Region wise, North America is projected t%li%be the highest revenue generator by 2031.

Competition Analysis

The leading players operating in the global 3D printing filament market include American Filament, TREED FILAMENTS, EU3dfuel, Shenzhen ECO Industrial Co.,

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Ltd., Eureka Technologies Inc., Atomic Filament, Precision 3D Filament, Spectrum Filaments, AlmightyFila, and DUCHOFILLA. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships, t%li%strengthen their foothold in the competitive market.

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Investment Opportunities

Upcoming/New Entrant by Regions

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Technology Trend Analysis

Patient/epidemiology data at country, region, global level

Regulatory Guidelines

Strategic Recommendations

Additional company profiles with specific t%li%client's interest

Additional country or region analysis- market size and forecast

Criss-cross segment analysis- market size and forecast

Historic market data

Import Export Analysis/Data

SWOT Analysis

Volume Market Size and Forecast

Key Market Segments

By Material Type

Metals

Plastics

Alloys

Ceramics

By End-Use Industry

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- Automotive
- Aerospace and Aviation
- Household Equipment
- Petrochemical
- Medical
- Electronics
- Others

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- UK
- France
- Spain
- Italy
- Rest of Europe

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