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3D Printing Materials Market by Type (Polymer, Metal, Ceramics & Composites), Form (Filament, Liquid, Powder), Technology (FDM, SLA, Polyjet, Multijet, Binder Jetting, EBM), Application - Global Forecast to 2028

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Abstracts

3D Printing Materials Market by Type (Polymer, Metal, Ceramics & Composites), Form (Filament, Liquid, Powder), Technology (FDM, SLA, Polyjet, Multijet, Binder Jetting, EBM), Application — Global Forecast to 2028

The research report titled “3D Printing Materials Market by Type (Polymer, Metal, Ceramics & Composites), Form (Filament, Liquid, Powder), Technology (FDM, SLA, Polyjet, Multijet, Binder Jetting, EBM), Application — Global Forecast to 2028” provides an in-depth analysis of the 3D Printing Materials market across five major geographies and emphasizes on the current market trends, market size, market shares, recent developments, and forecast till 2028. The 3D Printing Materials Market is expected to reach $9.86 billion by 2028, at a CAGR of 26.7% during the forecast period, 2021-2028.

The growth of this market is mainly attributed to the growing demand for polymers in 3D printing, mass customization of various functional parts for industrial equipment, jewelry, and consumer goods, and government initiatives to support the adoption of 3D printing. The use of 3D printing technology in the educational sector to improve understanding of scientific concepts by allowing students to physically touch and observe 3D-printed objects provide significant growth opportunities for market players

The study offers a comprehensive analysis of the 3D printing materials market with respect to type (polymers { photopolymer, polylactic acid, acrylic styrene, polyamide, polycarbonates, polypropylene, thermoplastic elastomers, and other 3D printing

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polymers}, metals {steel, titanium, nickel, aluminum, copper, cobalt-chrome, and other 3D printing metals}, ceramics & composites), form (powder, filaments, liquid), technology (FDM, SLS, SLA, DMLS, polyjet, multijet fusion, DLP, binder jetting, EBM), application (consumer products {electronic appliances, jewelry, artistic items, and other products}, automotive parts, industrial application {equipment & machines, goods & materials}, healthcare, aerospace & defense { prototype weapon, body & spare parts} and other applications), and geography (North America, Asia-Pacific, Europe, Latin America, and the Middle East & Africa). The study also evaluates industry competitors and analyzes the market at the country level.

Based on type, the 3D printing materials market is mainly segmented into polymers, metals, and ceramics & composites. The ceramics & composites segment is expected to grow at the highest CAGR during the forecast period. Major factors attributed to the high growth of this segment are the high demand for ceramic and composite 3D printing materials to manufacture 3D-printed ceramic vases, bowls, and sculptures; and the ability of materials to be formed into desired shapes from a mixture of powder with or without binders.

Based on form, the 3D printing materials market is segmented into powders, filaments, and liquids. The filaments segment is expected to grow at the highest CAGR during the forecast period. The rapid growth of this segment is mainly attributed to its distinct properties and high melting temperatures, and high adoption of 3D printing filaments to manufacture props, jigs & fixtures, toys, assembly parts, and education models.

Based on technology, the electron-beam melting (EBM) segment is expected to grow at the highest CAGR during the forecast period. The rapid growth of this segment is mainly attributed to the manufacturing of cost-efficient metal parts and lightweight components for high-end prototyping and the manufacturing of 3D print turbine blades for jet engines. However, the fused deposition modeling (FDM) segment is expected to account for the largest share of the 3D printing materials market in 2021.

Based on application, the healthcare segment is expected to grow at the highest CAGR during the forecast period. The rapid growth of this segment is mainly attributed to the growing demand for customized and precision medicines, growing demand for 3D printing technology for applications ranging from surgical planning models to 3D-printed vasculature and bioreactors, and the use of 3D printed surgical equipment and techniques to improve the clinical experience during surgery. However, the consumer products segment is expected to account for the largest share of the 3D printing materials market in 2021.

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Geographically, the market is segmented into five major regions: North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa. North America is estimated to account for the largest share of the 3D printing materials market in 2021. The large share of this market is mainly attributed to the high adoption of 3D printing technology in countries such as the U.S. and Canada; growing demand for 3D printing technology to manufacture orthopedic and cranial implants, surgical instruments, dental restorations such as crowns, and external prosthetics.

The key players operating in the 3D printing materials market are 3D Systems Corporation (U.S.), Proto Labs, Ltd., (U.S.), The ExOne Company (U.S.), HP INC. (U.S.), EnvisionTEC, Inc. (U.S.), Markforged, Inc. (U.S.), Tethon 3D (U.S.), Evonik Industries AG (Germany), Materialise NV (Belgium), EOS GmbH (Germany), Stratasys Ltd. (Israel), Zortrax (Poland), Sculpteo (France), Lithoz GmbH (Austria), IC3D, LLC. (U.S.).

Key Questions Answered in the Report-

Which are the high-growth market segments in terms of type, form, technology, application, and geography?

What is the historical market size for the 3D printing materials market?

What are the market forecasts and estimates for the period 2021-2028?

What are the major drivers, restraints, opportunities, and challenges in the 3D printing materials market?

Who are the major players in the market, and what share of the market do they hold?

How is the competitive landscape for the 3D printing materials market?

What are the recent developments in the 3D printing materials market?

What are the different strategies adopted by the major players in the market?

What are the key geographic trends, and which are the high-growth countries?

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Who are the local emerging players in the 3D printing materials market, and how do they compete with the other players?

Scope of the Report

3D Printing Materials Market, by Type

- Polymer
  - Photopolymer
  - Polylactic Acid
  - Acrylic Styrene
  - Polyamide
  - Polycarbonates
  - Polypropylene
  - Thermoplastic Elastomers
  - Other Polymers
- Metal
  - Steel
  - Titanium
  - Nickel
  - Aluminum
  - Copper
  - Cobalt Chrome

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Other Metals

Ceramics & Composites

3D Printing Materials Market, by Form

Filament

Liquid

Powder

3D Printing Materials Market, by Technology

Fused Deposition Modeling (FDM)

Selective Laser Sintering (SLS)

Stereolithography (SLA)

Direct Metal Laser Sintering (DMLS)

PolyJet

Multi Jet Fusion

Digital Light Processing (DLP)

Binder Jetting

Electron-beam Melting (EBM)

Other Technologies

3D Printing Materials Market, by Application

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- India
- South Korea
- Rest of APAC (RoAPAC)

Europe

- Germany
- U.K.
- Italy
- France
- Russia
- Spain
- Rest of Europe

Latin America

Middle East & Africa (MEA)

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