3D Printing Plastics Market by Type (Photopolymer, ABS, Polyamide, PLA, PETG), Form, Application (Prototyping, Manufacturing, Tooling), End-Use Industry (Healthcare, Aerospace & Defense, Automotive, Consumer Goods), and Region- Global Forecast to 2028

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Report description:

The 3D printing plastics market is estimated at USD 1.7 billion in 2023 and is projected to reach USD 4.4 billion by 2028, at a CAGR of 22.0% from 2023 to 2028. ABS (Acrylonitrile Butadiene Styrene) is a commonly used plastic in 3D printing, particularly in fused deposition modeling (FDM) technology. It is known for its flexibility and impact resistance, making it suitable for a wide range of applications, including the production of Lego bricks, car body parts, household appliances, and roofing applications. The growth factors for ABS in 3D printing include its versatility and wide range of applications, especially in industries such as automotive, defense, and consumer goods.

''In terms of value, powder form segment accounted for the third largest share of the overall 3D printing plastics market.''
3D printing plastics in powder form is a growing market, with North America being the leading region for powder form 3D printing plastics. The demand for 3D printing plastics has grown significantly in creating prototypes, and more manufacturers are expected to utilize additive manufacturing for high-volume production. The market for powder form 3D printing plastics is expected to continue growing, driven by the demand for additive manufacturing in various industries and the development of new biocompatible materials.

''In terms of value, consumer goods industry accounted for the fourth largest share of the overall 3D printing plastics market.''
In 2022, the consumer goods industry accounted for the fourth largest share of the 3D printing plastics market, in terms of value. This is attributed to the 3D printing plastics used to create customized consumer electronics, such as smartphone cases,

headphones, and gaming controllers, that can be tailored to the specific needs of individual consumers. This improve the functionality and user experience of the products. 3D printing also used to create customized toys and games, such as action figures, puzzles, and board games, that can be tailored to the specific needs and preferences of individual consumers. This improve the entertainment value and educational benefits of the products. This scenarios are expected to drive consumption of 3D printing plastics in consumer good industry.

"During the forecast period, the 3D printing plastics market in North America region is projected to be the largest region."
New product developments, capacity expansions, and the establishment of plants by various leading players in this region majorly drive the growth of the 3D printing plastics market in North America. Demand for composites from the automotive, aerospace & defense, and healthcare industries is projected to increase due to new product innovations and technological advancements in the applications of 3D printing plastics in these industries. In North America, the aerospace & defense, automotive, and healthcare are the major industries which have applications of 3D printing plastics.
This study has been validated through primary interviews with industry experts globally. These primary sources have been divided into the following three categories:
-□By Company Type- Tier 1- 37%, Tier 2- 33%, and Tier 3- 30%
-□By Designation- C Level- 50%, Director Level- 20%, and Others- 30%
-□By Region- Europe- 21%, Asia Pacific (APAC) - 28%, North America- 32%, Middle East & Africa (MEA)-12%, Latin America-7%
The report provides a comprehensive analysis of company profiles:
Prominent companies include 3D Systems Corporation (US), Arkema (France), BASF SE (Germany), Stratasys, Ltd. (US), Solvay (Belgium), Shenzhen eSUN Industrial Co., Ltd. (China), Evonik Industries AG (Germany), EOS (Germany), Formlabs (US), SABIC (Saudi Arabia), CRP TECHNOLOGY S.r.l. (Italy), Henkel AG & Co. KGaA (Germany), Huntsman International LLC (US), Ensinger (Germany), and Zortrax (Poland).
Research Coverage

This research report categorizes the 3D printing plastics Market by type (Photopolymer, ABS, Polyamide, PLA, PETG, Others), form (Filament, Liquid, Powder), application (Prototyping, Manufacturing, Tooling), end-Use Industry (Healthcare, Aerospace & Defense, Automotive, Consumer Goods), and region (North America, Europe, Asia Pacific, the Middle East & Africa, and Latin America). The scope of the report includes detailed information about the major factors influencing the growth of the 3D printing plastics market, such as drivers, restraints, challenges, and opportunities. A thorough examination of the key industry players has been conducted in order to provide insights into their business overview, solutions, and services, key strategies, contracts, partnerships, and agreements. New product and service launches, mergers and acquisitions, and recent developments in the 3D printing plastics market are all covered. This report includes a competitive analysis of upcoming startups in the 3D printing plastics market ecosystem.
Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall 3D printing plastics market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.
The report provides insights on the following pointers:

-□Analysis of key drivers (Increased supply of 3D printing plastics due to forward integration of key polymer companies, Development of application-specific grades, Mass Customization, Government initiatives to surge adoption of 3D printing technologies), restraints (Environmental concerns regarding disposal of 3D-printed plastic products, Skepticism on acceptance of new technologies in emerging economies, Specific grades of 3D printing plastics for particular applications), opportunities (Increasing demand for bio-based grades of 3D printing plastics, Growing demand for composite grades in industrial applications),

and challenges (Technological advancements in 3D printing, High manufacturing costs of commercial-grade 3D printing plastics) influencing the growth of the 3D printing plastics market

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the 3D printing plastics market

-□Market Development: Comprehensive information about lucrative markets - the report analyses the 3D printing plastics market across varied regions.

-□Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the 3D printing plastics market

-□Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like 3D Systems Corporation (US), Arkema (France), BASF SE (Germany), Stratasys, Ltd. (US), Solvay (Belgium), Shenzhen eSUN Industrial Co., Ltd. (China), Evonik Industries AG (Germany), EOS (Germany), Formlabs (US), SABIC (Saudi Arabia), CRP TECHNOLOGY S.r.l. (Italy), Henkel AG & Co. KGaA (Germany), Huntsman International LLC (US), Ensinger (Germany), and Zortrax (Poland), among others in the 3D printing plastics market.

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