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3D Printing Plastics Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global 3D printing plastics market size reached US$ 1,006 Million in 2022. Looking forward, IMARC Group expects the market to reach US$ 3,400 Million by 2028, exhibiting a growth rate (CAGR) of 20.9% during 2023-2028.

Three-dimensional (3D) printing plastics refer to an additive manufacturing procedure that uses various materials, including acrylonitrile butadiene styrene (ABS) filaments, thermoplastics, photopolymers, and polyamide, to develop products. These materials are usually composed of several semi-synthetic and synthetic compounds that are derived from natural sources and petrochemicals. 3D printed plastics are lightweight, malleable, easily sterilizable, biocompatible, and offer enhanced chemical, thermal, and mechanical properties. Apart from this, the procedure assists in easier and faster design iteration or modifications, ensures effective mass customization of products, and provides assembly consolidations. Based on these properties, 3D printing plastics are employed across various industries to prototype, modify, and manufacture tools, components, and accessories in different shapes, sizes, and strengths. At present, they are mainly available in filamin, powder, liquid, and ink forms.

3D Printing Plastics Market Trends:

The widespread adoption of 3D printing technology across various sectors to promote the digital manufacturing of products over traditional methodologies, such as injection molding and subtractive composition, is primarily driving the market growth. In line with this, the growing user awareness regarding the multiple benefits of 3D printing plastics,

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including precision, flexibility, and fuel optimization, has intensified the usage of polycarbonate and ABS materials in the food and beverage (F&B) sector as an effective packaging solution, thus supporting the market growth. Additionally, the extensive uptake of 3D printing plastics in the automotive and aerospace plastics sectors to manufacture several low-volume automobile components, including molds, jigs, fixtures, and grips, at a reduced lead time and production costs is acting as another growth-inducing factor. Moreover, the escalating environmental concerns have prompted manufacturers to introduce bio-based grade plastic printing materials that are derived from different natural sources, including palm oil, starches, and castor seeds, which is favoring the market growth. Apart from this, the rising usage of 3D printing plastics in the healthcare sector to manufacture surgical instruments and orthodontics surgical implants is creating 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 plastics market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, form, application and end user.

Breakup by Type:

Photopolymers

ABS and ASA

Polyamide/Nylon

Polylactic Acid (PLA)

Others

Breakup by Form:

Filament

Liquid/Ink

Powder

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Breakup by Application:

Manufacturing

Prototyping

Breakup by End User:

Automotive

Healthcare

Aerospace and Defense

Consumer Goods

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

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Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

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., BASF SE, CRP Technology srl, EOS GmbH - Electro Optical Systems, Evonik Industries AG, Henkel AG & Co. KGaA, Materialise NV, Shenzhen Esun Industrial Co. Ltd., Solvay S.A., Stratasys Ltd. and Toner Plastics.

Key Questions Answered in This Report:

How has the global 3D printing plastics market performed so far and how will it perform

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in the coming years?

What has been the impact of COVID-19 on the global 3D printing plastics 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 application?

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 plastics market and who are the key players?

What is the degree of competition in the industry?

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