

## **3D Printing Filament Market by Type (Plastics, Metals, Ceramics, Others), End-use Industry (Aerospace & Defense, Medical & Dental, Automotive, Consumer Goods, Others), and Region - Global Forecast to 2030**

Market Report | 2025-08-22 | 260 pages | MarketsandMarkets

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### **Report description:**

The 3D printing filament market is projected to reach USD 4.20 billion by 2030, from USD 1.77 billion in 2025, at a CAGR of 18.8% in terms of value. The metals segment was the second-largest in the 3D printing filament market in 2024, since it is increasingly used in high-performance industrial applications where the filaments are required to be strong, durable, and able to resist high heat. Metal filaments are commonly metal-filled polymers or bound metal filaments, which find applications, particularly in the aerospace, automotive, and tooling industries where extremely lightweight metal components and complex shapes are needed. Such filaments provide a less-costly alternative to conventional metal manufacturing as they allow creating complex parts with less waste of material. Their high demand is also contributed by an increase in the number of metal-filled filaments, such as stainless steel, copper, and bronze, which are used in prototyping as well as functional end-use parts. Furthermore, technological breakthroughs in the field of sintering have enhanced post-processing of the metal filaments, which makes them suitable in applicative industries.

<https://www.marketsandmarkets.com/Images/3d-printing-filament-market-Overview.webp>

"In terms of value, the automotive industry is expected to be the second-fastest-growing market in the 3D printing filament market"

The automotive industry is expected to be the second-fastest-growing 3D printing filaments market based on end-use Industry due its high application of additive manufacturing in terms of rapid prototyping, lightweight components, tooling, and functional parts. Automobile companies are turning to the use of 3D printing filaments like ABS, Nylon, and PETG which are expected to improve the speed of development, reduce the cost of manufacture and produce increasing design opportunities. Shorter lead

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time to make tailored parts, jigs, and fixtures enables increasing R&D and testing. Furthermore, the changing paradigm to electric cars (EVs) and the need for lightweight and high-performance material has also boosted the speed of advanced filament used, such as PEEK, carbon-reinforced polymers, etc. Another trend is the intention of leading auto manufacturers and OEMs to invest in their in-house 3D printing capabilities, which will allow them to be able to continuously produce on demand and their supply chains becoming efficient. All these elements make the automotive industry the market with the highest share when it comes to the consumption of 3D printing filaments based on end-use industry.?

"The 3D printing filament market in Europe is projected to register the third-highest CAGR During the forecast period"

The growth of the 3D printing filament market in this region is primarily driven by increasing automotive, medical & dental and aerospace & dental applications. The market has a wide geographical presence with well-established players. Most of these players are based in Europe. Germany, France, the UK, and the Netherlands are the leaders in the adoption of this technology in these industries, such as the automotive industry, the aerospace industry, the medical industry, and the consumer goods industry. European manufacturers are also increasingly turning to the use of the 3D printing filament in prototyping, lightweighting of parts and custom part production to make their processes more efficient with less wastage. The region is also home to a number of major players in filament manufacturing and research centers that are players in material innovation in bio-based and recyclable filaments in line with EU green policies. Europe enjoys consistent growth, supported by high-tech manufacturing, government grants and close academic-industry cooperation, placing the region as the third-fastest-growing in the high-growth global 3D printing filament market.

Europe is the home to some major participants in the 3D printing filament market with robust industrial users and innovators. The largest offering of different types of filaments is BASF Forward AM (Germany) with PLA, ABS, and metal-based materials.

ColorFabb (Netherlands) has a number of composite and specialty filaments, such as carbon fiber PLA, and woodFill. In the Czech Republic, Fillamentum provides high quality PLA, TPU, and Nylon filaments. Nanovia (France) produces technical filaments for the aerospace and automotive segments, 3DGence (Poland) sells high performance materials, such as PEEK and PC.

This study has been validated through interviews with industry experts globally. These primary sources have been divided into the following three categories:

-□By Company Type: Tier 1 - 40%, Tier 2 - 33%, and Tier 3 - 27%

-□By Designation: C-level - 50%, D-level- 30%, and Executives- 20%

-□By Region: North America - 20%, Europe - 15%, Asia Pacific - 50%, South America - 5%, and Middle East & Africa -10%.

The report provides a comprehensive analysis of company profiles:

Prominent companies include Arkema (France), Materialise (Belgium), Stratasys (US), Syensqo (Belgium), Shenzhen Esun Industrial Co., Ltd. (China), Evonik Industries AG (Germany), 3DXTECH (US), Spectrum Filaments (Poland), Nanoe (France), WOL3D (India), Serafin Gruppe (Germany), Huntsman International LLC (US), Ensinger (Germany), American Filament (US), and Zortrax (Poland).

#### Research Coverage

This research report categorizes the 3D printing filament market By Type (Plastics, Metals, Ceramics, Others), End-use Industry (Aerospace & Defense, Medical & Dental, Automotive, Consumer Goods, Others), and region (Asia Pacific, Europe, North America, Middle East & Africa, and Latin America). The scope of the report includes detailed information about key drivers, restraints, challenges, and opportunities influencing the growth of the 3D printing filament market. A comprehensive analysis of key industry players provides insights into their business overview, solutions, and services, as well as key strategies, such as contracts, partnerships, and agreements. The report also covers new product and service launches, mergers & acquisitions, and other developments related to the 3D printing filament market. Competitive analysis of upcoming startups within the 3D printing filament market ecosystem is included in the report.

Reasons to buy this report:

The report will assist market leaders and new entrants by providing estimated revenue figures for the 3D printing filament market and its segments. It will help stakeholders understand the competitive landscape and gain insights to better position their businesses and develop effective go-to-market strategies. Additionally, the report offers key market insights, including main drivers, restraints, challenges, and opportunities, helping stakeholders grasp the market's current pulse.

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The report provides insights on the following pointers:

-□Analysis of key drivers (Government initiatives to surge adoption of 3D printing, Increasing demand for 3D printing filaments from aerospace & defense industry), restraints (Environmental concerns regarding disposal of plastic products), opportunities (Surge in demand for biodegradable and recycled filament options), and challenges (High cost of advanced filaments) influencing the growth of the 3D printing filament market.

-□Product Development/Innovation: Detailed insights on upcoming technologies, R&D activities, and product & service launches in the 3D printing filament market.

-□Market Development: Comprehensive information about lucrative markets; The report analyzes the 3D printing filament market across varied regions

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

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Arkema (France), Materialise (Belgium), Stratasys (US), Syensqo (Belgium), Shenzhen Esun Industrial Co., Ltd. (China), Evonik Industries AG (Germany), 3DXTECH (US), and Spectrum Filaments (Poland), among others, in the 3D printing filament market.

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