

# Global 3D Printing Plastic Filament Material Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global 3D Printing Plastic Filament Material market size was valued at US\$ 1485 million in 2025 and is forecast to a readjusted size of US\$ 2391 million by 2032 with a CAGR of 7.4% during review period.

3D printing plastic consumables refer to thermoplastic or photopolymer materials used in additive manufacturing equipment. Common forms include PLA, ABS, PETG, nylon, and engineering plastic filaments or granules. These materials form three-dimensional solid structures through layer-by-layer deposition, featuring strong designability, high material utilization, and suitability for small-batch customized production. They are widely used in prototyping, industrial parts manufacturing, medical devices, education, and consumer-grade creative products. Based on industry scale and material share, global sales of 3D printing plastic consumables are estimated at approximately 78,000 tons in 2025, with an average unit price of approximately US\$18.5 per kilogram, an overall industry capacity utilization rate of approximately 76%, and a gross profit margin of approximately 29%. Upstream companies mainly come from the petrochemical and polymer materials industries, including manufacturers of polylactic acid, ABS resin, nylon, and additives, as well as color masterbatch and functional modified material companies; the midstream consists of 3D printing consumable manufacturers and brand owners; downstream companies are mainly distributed in aerospace, automotive manufacturing, medical devices, industrial manufacturing, educational institutions, consumer electronics, and the maker market. The product cost structure typically consists of approximately 48% raw material costs, 18% processing and extrusion manufacturing, 9% packaging and logistics, 11% distribution and sales, 8% R&D and formulation modification, and 6% other costs. In terms of demand analysis, the

downstream demand list mainly includes rapid prototyping, customized parts production, small-batch flexible manufacturing, education and training, experimental needs, personalized medical devices, and consumer-grade creative printing. The downstream customer list mainly includes R&D departments of manufacturing companies, automotive and aerospace parts manufacturers, medical device companies, educational institutions and research institutes, 3D printing service providers, and individual makers and SMEs. Regarding business opportunities, policy drivers primarily stem from policies promoting advanced manufacturing, the industrial internet, and new materials industries, driving increased additive manufacturing penetration. Technological innovation is mainly reflected in the development of high-performance engineering plastics, composite materials, and biodegradable materials, while improvements in printing accuracy and equipment performance drive upgrades in consumables. Regarding changing consumer demands, increased user demand for personalized customization, rapid delivery, and environmentally friendly materials is driving the continuous upgrading of 3D printing plastic consumables from low-end general-purpose materials to high-performance, environmentally friendly, and functional materials.

As the core consumable material in the additive manufacturing industry chain, the market development of 3D printing plastic consumables is highly correlated with the popularization rate of 3D printing equipment and the expansion of application scenarios. Currently, the industry has gradually expanded from its early focus on the education and maker market to the fields of industrial manufacturing and end-component production, especially in areas such as automotive lightweighting, complex aerospace structural components, and customized medical devices, where plastic consumables still dominate. With the continuous advancement of materials technology, traditional basic materials such as PLA and ABS are evolving towards high-strength, high-temperature resistant, and functional composite materials, such as carbon fiber reinforced plastics and bio-based materials, which is continuously enhancing their substitution capabilities in industrial applications. At the same time, industry competition is shifting from simple price competition to a comprehensive competition based on material performance, stability, and brand service capabilities. Companies with formulation development capabilities and large-scale production capabilities will gain a larger market share. Future market growth will mainly rely on three directions: first, the stable demand brought about by large-scale applications in the industrial sector; second, the long-tail demand brought about by the popularization of consumer-grade 3D printing equipment; and third, the rapid development of biodegradable and recyclable materials driven by environmental policies. Driven by policy support, technological upgrades, and the expansion of application scenarios, the 3D printing plastic consumables industry is

expected to maintain a high growth rate and gradually develop towards higher added value and differentiation.

This report is a detailed and comprehensive analysis for global 3D Printing Plastic Filament Material market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global 3D Printing Plastic Filament Material market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 3D Printing Plastic Filament Material market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 3D Printing Plastic Filament Material market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 3D Printing Plastic Filament Material market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 3D Printing Plastic Filament Material

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 3D Printing Plastic Filament Material market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments.

Key companies covered as a part of this study include BASF, Asahi-Kasei, NatureWorks, Bambu Lab, ColorFabb, Polymaker, Prusament, Airtech, Kexcelled,

Ultimaker, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

3D Printing Plastic Filament Material market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

ABS Material

PLA Material

PET Material

Other

### Market segment by Filament Diameter

1.75 mm

2.85 mm

Others

### Market segment by Material Type

Engineering Plastics

Bioplastics

Others

## Market segment by Application

Medical

Automotive

Aerospace

Manufacturing

Military

Other

## Major players covered

BASF

Asahi-Kasei

NatureWorks

Bambu Lab

ColorFabb

Polymaker

Prusament

Airtech

Kexcelled

Ultimaker

Geeetech

Shenzhen Creality

Fillamentum

Marlon Inc.

Keene Village Plastics

3D Systems

ESUN

Shanghai Fusion Tech

Dongguan Songhu Plastic Machinery Corporation

Toner Plastics

Jet

COEX 3D

ProtoPlant

3Dom

Kingfa Sci. & Tech

Guangzhou Yousu 3D Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe 3D Printing Plastic Filament Material product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 3D Printing Plastic Filament Material, with price, sales quantity, revenue, and global market share of 3D Printing Plastic Filament Material from 2021 to 2026.

Chapter 3, the 3D Printing Plastic Filament Material competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 3D Printing Plastic Filament Material breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 3D Printing Plastic Filament Material market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 3D Printing Plastic Filament Material.

Chapter 14 and 15, to describe 3D Printing Plastic Filament Material sales channel, distributors, customers, research findings and conclusion.

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