

Global Bio-based Filaments for 3D Printing 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 Bio-based Filaments for 3D Printing market size was valued at US\$ 815 million in 2025 and is forecast to a readjusted size of US\$ 1717 million by 2032 with a CAGR of 9.4% during review period.

Bio-based filaments for 3D printing are additive manufacturing materials formed by polymerization, modification, granulation, extrusion or resin formulation using renewable biomass such as corn, sugarcane, cassava, vegetable oil, lignocellulose, algae or microbial fermentation products as partial or complete carbon sources. They mainly include PLA polylactic acid wire, PHA wire, etc. They can be used in 3D printing processes such as FDM, FFF, SLA, DLP and LCD. The core feature of these consumables is to reduce dependence on petroleum based raw materials and increase renewable carbon content. In 2025, global Bio-based Filaments for 3D Printing production reached approximately 66,872 Tons, with an average global market price of around US\$ 11.84 per kg.

Bio-based filaments for 3D printing are gradually evolving from a single product structure dominated by ordinary PLA to high toughness, heat resistance, flexibility, composite reinforcement, and low-carbon certification. The growth in the number of consumer grade 3D printers, the popularization of educational maker activities, and the expansion of cultural, creative, and personalized consumption have brought stable repeat procurement demand for biological baseline materials. Among them, PLA will continue to maintain its leading position due to its lower printing temperature, smaller warpage, lighter odor, and better equipment compatibility. Industry competition will shift from simply emphasizing green concepts to verifying biobased content, carbon footprint, mechanical performance, printing stability, and end of pipe disposal methods. If

companies rely solely on replacing paper spools or promoting plant sources, it will be difficult to form a sustained premium. Enterprises with bio based resin modification, precise control of wire diameter, equipment parameter adaptation, environmental certification, and the ability to recycle waste printed parts will be more likely to enter printer brands, education channels, and international consumer goods customer supply chains.

This report is a detailed and comprehensive analysis for global Bio-based Filaments for 3D Printing 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 Bio-based Filaments for 3D Printing market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global Bio-based Filaments for 3D Printing market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global Bio-based Filaments for 3D Printing market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global Bio-based Filaments for 3D Printing market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Kg), 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 Bio-based Filaments for 3D Printing

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 Bio-based Filaments for 3D Printing 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 Stratasys, Lumas Polymers, Anhui Sunlu Technology, Polymaker, Bambu Lab, ESUN, Shenzhen Creality, Kexcelled, Prusa Research a.s., UltiMaker, etc.

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

Market Segmentation

Bio-based Filaments for 3D Printing 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

PLA Filament

PHA Filament

Other

Market segment by Diameter

Diameter 1.75mm

Diameter 2.85mm

Market segment by Material Source

Plant Extraction

Microbial Fermentation

Market segment by Application

Medical Industry

Construction Industry

Consumer Goods

Cultural and Creative Industries

Education and Research

Other

Major players covered

Stratasys

Lumas Polymers

Anhui Sunlu Technology

Polymaker

Bambu Lab

ESUN

Shenzhen Crealty

Kexcelled

Prusa Research a.s.

UltiMaker

FormFutura

LulzBot

Phrozen

ELEGOO

ANYCUBIC

Zhejiang Flashforge 3D Technology

Beijing Tiertime Technology

Geeetech

AM Marketplace GmbH

Shanghai Fusion Tech

Airtech

ColorFabb

Dongguan Songhu Plastic Machinery Corporation

Kingfa Sci. & Tech

Toner Plastics

Fillamentum

Guangzhou Yousu 3D Technology

Spectrum Group Sp. z o.o.

Jiangyin Longshan Synthetic Material

Hangzhou Zhuopu New Materials 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 Bio-based Filaments for 3D Printing product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bio-based Filaments for 3D Printing, with price, sales quantity, revenue, and global market share of Bio-based Filaments for 3D Printing from 2021 to 2026.

Chapter 3, the Bio-based Filaments for 3D Printing competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bio-based Filaments for 3D Printing 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 Bio-based Filaments for 3D Printing 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 Bio-based Filaments for 3D Printing.

Chapter 14 and 15, to describe Bio-based Filaments for 3D Printing sales channel, distributors, customers, research findings and conclusion.

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