

Global Bio-based Filaments for 3D Printing Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bio-based Filaments for 3D Printing market size is expected to reach \$ 1717 million by 2032, rising at a market growth of 9.4% CAGR during the forecast period (2026-2032).

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 studies the global Bio-based Filaments for 3D Printing production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bio-based Filaments for 3D Printing and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Bio-based Filaments for 3D Printing that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bio-based Filaments for 3D Printing total production and demand, 2021-2032, (Tons)

Global Bio-based Filaments for 3D Printing total production value, 2021-2032, (USD Million)

Global Bio-based Filaments for 3D Printing production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Bio-based Filaments for 3D Printing consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Bio-based Filaments for 3D Printing domestic production, consumption, key domestic manufacturers and share

Global Bio-based Filaments for 3D Printing production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Bio-based Filaments for 3D Printing production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Bio-based Filaments for 3D Printing production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Bio-based Filaments for 3D Printing market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Bio-based Filaments for 3D Printing market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Bio-based Filaments for 3D Printing Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bio-based Filaments for 3D Printing Market, Segmentation by Type:

PLA Filament

PHA Filament

Other

Global Bio-based Filaments for 3D Printing Market, Segmentation by Diameter:

Diameter 1.75mm

Diameter 2.85mm

Global Bio-based Filaments for 3D Printing Market, Segmentation by Material Source:

Plant Extraction

Microbial Fermentation

Global Bio-based Filaments for 3D Printing Market, Segmentation by Application:

Medical Industry

Construction Industry

Consumer Goods

Cultural and Creative Industries

Education and Research

Other

Companies Profiled:

Stratasys

Lumas Polymers

Anhui Sunlu Technology

Polymaker

Bambu Lab

ESUN

Shenzhen Creality

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

Key Questions Answered:

1. How big is the global Bio-based Filaments for 3D Printing market?
2. What is the demand of the global Bio-based Filaments for 3D Printing market?
3. What is the year over year growth of the global Bio-based Filaments for 3D Printing market?
4. What is the production and production value of the global Bio-based Filaments for 3D Printing market?
5. Who are the key producers in the global Bio-based Filaments for 3D Printing market?
6. What are the growth factors driving the market demand?

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