

Global Biodegradable 3D Printing Filament Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Biodegradable 3D Printing Filament 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).

Biodegradable 3D printing filament is a thermoplastic additive manufacturing consumable made from PLA, PHA, and other substrates through drying, formulation modification, melt extrusion, precision sizing, traction winding, and moisture-proof packaging. It is mainly suitable for FDM and FFF desktop 3D printers, among which PLA and modified PLA are currently the most commercialized products. However, ordinary PLA usually requires industrial composting facilities to provide suitable temperature, humidity, ventilation, and microbial conditions for rapid degradation, and cannot be simply understood as disappearing quickly in the natural environment. In 2025, global Biodegradable 3D Printing Filament production reached approximately 66,872 Tons, with an average global market price of around US\$ 11.84 per kg.

Biodegradable 3D printing filament are gradually shifting from environmentally friendly concept products mainly based on ordinary PLA to green material systems that emphasize real performance, clear disposal conditions, and full lifecycle management. The core of future market competition is no longer just whether the material comes from corn, sugarcane, or other renewable resources, but whether it can simultaneously solve problems such as insufficient heat resistance, low toughness, obvious moisture absorption, insufficient long-term storage stability, and unstable melt supply under high-speed printing conditions. With the upgrading of consumer grade printers towards high-speed, multi-color, and automatic material recognition, high flow PLA, high toughness PLA, heat-resistant PLA, PLA PHA blends, and natural fiber composite materials will have more application opportunities. Consumer goods, cultural and creative industries,

education, and scientific research are still the main areas of demand. Among them, school and home users are more concerned about low odor and safety, cultural and creative customers are more concerned about color, surface texture, and detail performance, while consumer goods enterprises are more concerned about mechanical performance, compliance certification, and batch consistency. Policy support for biodegradable materials will continue to bring development opportunities, but regulatory focus is shifting from encouraging substitution to standards, labeling, testing, and real degradation environmental management. Products lacking certification or only promoting environmental protection based on basic resin properties will face greater compliance risks. In the future, the industry still needs to establish end-to-end processing links such as sorting and recycling of waste printed materials, re extrusion, and industrial composting, otherwise the biodegradable properties of materials will be difficult to fully convert into actual environmental benefits. Enterprises with resin modification, wire diameter closed-loop control, equipment parameter adaptation, environmental certification, and recyclable reel systems will be more likely to form brand premiums and long-term customer stickiness.

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This report studies the global Biodegradable 3D Printing Filament production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Biodegradable 3D Printing Filament 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 Biodegradable 3D Printing Filament that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Biodegradable 3D Printing Filament total production and demand, 2021-2032, (Tons)

Global Biodegradable 3D Printing Filament total production value, 2021-2032, (USD Million)

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

Global Biodegradable 3D Printing Filament consumption by region & country, CAGR,

2021-2032 & (Tons)

U.S. VS China: Biodegradable 3D Printing Filament domestic production, consumption, key domestic manufacturers and share

Global Biodegradable 3D Printing Filament production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Biodegradable 3D Printing Filament production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Biodegradable 3D Printing Filament production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Biodegradable 3D Printing Filament 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, Jabil, 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 Biodegradable 3D Printing Filament 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 Biodegradable 3D Printing Filament Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Biodegradable 3D Printing Filament Market, Segmentation by Type:

PLA Filament

PHA Filament

Global Biodegradable 3D Printing Filament Market, Segmentation by Diameter:

Diameter 1.75mm

Diameter 2.85mm

Global Biodegradable 3D Printing Filament Market, Segmentation by Material Source:

Plant Extraction

Microbial Fermentation

Global Biodegradable 3D Printing Filament Market, Segmentation by Application:

Medical Industry

Construction Industry

Consumer Goods

Cultural and Creative Industries

Education and Research

Other

Companies Profiled:

Stratasys

Jabil

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

Filamentum

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 Biodegradable 3D Printing Filament market?
2. What is the demand of the global Biodegradable 3D Printing Filament market?
3. What is the year over year growth of the global Biodegradable 3D Printing Filament market?
4. What is the production and production value of the global Biodegradable 3D Printing Filament market?

5. Who are the key producers in the global Biodegradable 3D Printing Filament market?
6. What are the growth factors driving the market demand?

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