

# **3D Printing Materials Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027**

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## **Abstracts**

The global 3D printing materials market reached a value of US\$ 1.91 Billion in 2021. Looking forward, IMARC Group expects the market to reach a value of US\$ 5.67 Billion by 2027, exhibiting a CAGR of 18.60% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

Three-dimensional (3D) printing, also known as digital fabrication technology and additive manufacturing (AM), refers to the process of creating a physical object from a digital design. It utilizes different materials, such as plastics, epoxy resins, ceramics, metals, carbon fibers, graphite and graphene, nitinol, and paper. It allows rapid prototyping, which is the fast fabrication of a physical part, model, or assembly using 3D computer aided design (CAD). It currently finds extensive applications in the automotive, electronics, and healthcare industries for mass customization and the production of open-source designs. As a result, the demand for 3D printing materials is rising across the globe.

### **3D Printing Materials Market Trends:**

Hearing aids manufacturers are increasingly relying on 3D printing to create prototypes and mass produce their products using custom scans. This, in confluence with rising technological advancements, represents one of the key factors bolstering the growth of the market. Moreover, biomaterials used in biomedical 3D printing technology, such as metals, ceramics, hard polymers and composites, are rigid. These materials are utilized in orthopedic and dental applications as they can produce customized solutions on account of their inherent structural and morphological characteristics. Besides this, polyethylene glycol diacrylate (PEGDA), acrylonitrile butadiene styrene (ABS), flexible

photopolymers, silicone, and elastomer-based materials are the most commonly used 3D printing materials in robotics. Furthermore, 3D printing technology offers freeform fabrication, sustainable and efficient manufacturing, and a shorter time from design to production as compared to subtractive or conventional manufacturing technology. In addition, it does not require molds for manufacturing parts, which results in time and cost savings. These benefits, coupled with the thriving aviation industry, are anticipated to create a positive outlook for the market.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global 3D printing materials market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on type, form and end user.

#### Breakup by Type:

##### Polymers

Acrylonitrile Butadiene Styrene (ABS)

Polylactic Acid (PLA)

##### Photopolymers

Nylon

Others

##### Metals

Steel

Titanium

Aluminum

Others

##### Ceramic

Silica Sand

Glass

Gypsum

Others

Others

Laywood

Paper

Others

#### Breakup by Form:

Powder

Filament  
Liquid

Breakup by End User:

Consumer Products  
Aerospace and Defense  
Automotive  
Healthcare  
Education and Research  
Others

Breakup by Region:

North America  
United States  
Canada  
Asia-Pacific  
China  
Japan  
India  
South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being 3D Systems Inc., Arkema S.A., Carbon Inc., Clariant AG, EOS, Formlabs, H?gan?s AB, Markforged, Materialise NV, Sandvik AB, Stratasys Ltd. and Taulman3d LLC.

Key Questions Answered in This Report:

How has the global 3D printing materials market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global 3D printing materials market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the form?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global 3D printing materials market and who are the key players?

What is the degree of competition in the industry?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL 3D PRINTING MATERIALS MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY TYPE**

- 6.1 Polymers
  - 6.1.1 Market Trends
  - 6.1.2 Key Segments
    - 6.1.2.1 Acrylonitrile Butadiene Styrene (ABS)
    - 6.1.2.2 Polylactic Acid (PLA)
    - 6.1.2.3 Photopolymers
    - 6.1.2.4 Nylon

6.1.2.5 Others

6.1.3 Market Forecast

6.2 Metals

6.2.1 Market Trends

6.2.2 Key Segments

6.2.2.1 Steel

6.2.2.2 Titanium

6.2.2.3 Aluminum

6.2.2.4 Others

6.2.3 Market Forecast

6.3 Ceramic

6.3.1 Market Trends

6.3.2 Key Segments

6.3.2.1 Silica Sand

6.3.2.2 Glass

6.3.2.3 Gypsum

6.3.2.4 Others

6.3.3 Market Forecast

6.4 Others

6.4.1 Market Trends

6.4.2 Key Segments

6.4.2.1 Laywood

6.4.2.2 Paper

6.4.2.3 Others

6.4.3 Market Forecast

## **7 MARKET BREAKUP BY FORM**

7.1 Powder

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Filament

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Liquid

7.3.1 Market Trends

7.3.2 Market Forecast

## **8 MARKET BREAKUP BY END USER**

## 8.1 Consumer Products

### 8.1.1 Market Trends

### 8.1.2 Market Forecast

## 8.2 Aerospace and Defense

### 8.2.1 Market Trends

### 8.2.2 Market Forecast

## 8.3 Automotive

### 8.3.1 Market Trends

### 8.3.2 Market Forecast

## 8.4 Healthcare

### 8.4.1 Market Trends

### 8.4.2 Market Forecast

## 8.5 Education and Research

### 8.5.1 Market Trends

### 8.5.2 Market Forecast

## 8.6 Others

### 8.6.1 Market Trends

### 8.6.2 Market Forecast

# 9 MARKET BREAKUP BY REGION

## 9.1 North America

### 9.1.1 United States

#### 9.1.1.1 Market Trends

#### 9.1.1.2 Market Forecast

### 9.1.2 Canada

#### 9.1.2.1 Market Trends

#### 9.1.2.2 Market Forecast

## 9.2 Asia-Pacific

### 9.2.1 China

#### 9.2.1.1 Market Trends

#### 9.2.1.2 Market Forecast

### 9.2.2 Japan

#### 9.2.2.1 Market Trends

#### 9.2.2.2 Market Forecast

### 9.2.3 India

#### 9.2.3.1 Market Trends

#### 9.2.3.2 Market Forecast

- 9.2.4 South Korea
  - 9.2.4.1 Market Trends
  - 9.2.4.2 Market Forecast
- 9.2.5 Australia
  - 9.2.5.1 Market Trends
  - 9.2.5.2 Market Forecast
- 9.2.6 Indonesia
  - 9.2.6.1 Market Trends
  - 9.2.6.2 Market Forecast
- 9.2.7 Others
  - 9.2.7.1 Market Trends
  - 9.2.7.2 Market Forecast
- 9.3 Europe
  - 9.3.1 Germany
    - 9.3.1.1 Market Trends
    - 9.3.1.2 Market Forecast
  - 9.3.2 France
    - 9.3.2.1 Market Trends
    - 9.3.2.2 Market Forecast
  - 9.3.3 United Kingdom
    - 9.3.3.1 Market Trends
    - 9.3.3.2 Market Forecast
  - 9.3.4 Italy
    - 9.3.4.1 Market Trends
    - 9.3.4.2 Market Forecast
  - 9.3.5 Spain
    - 9.3.5.1 Market Trends
    - 9.3.5.2 Market Forecast
  - 9.3.6 Russia
    - 9.3.6.1 Market Trends
    - 9.3.6.2 Market Forecast
  - 9.3.7 Others
    - 9.3.7.1 Market Trends
    - 9.3.7.2 Market Forecast
- 9.4 Latin America
  - 9.4.1 Brazil
    - 9.4.1.1 Market Trends
    - 9.4.1.2 Market Forecast
  - 9.4.2 Mexico



9.4.2.1 Market Trends

9.4.2.2 Market Forecast

9.4.3 Others

9.4.3.1 Market Trends

9.4.3.2 Market Forecast

9.5 Middle East and Africa

9.5.1 Market Trends

9.5.2 Market Breakup by Country

9.5.3 Market Forecast

## **10 SWOT ANALYSIS**

10.1 Overview

10.2 Strengths

10.3 Weaknesses

10.4 Opportunities

10.5 Threats

## **11 VALUE CHAIN ANALYSIS**

## **12 PORTERS FIVE FORCES ANALYSIS**

12.1 Overview

12.2 Bargaining Power of Buyers

12.3 Bargaining Power of Suppliers

12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

## **13 PRICE ANALYSIS**

## **14 COMPETITIVE LANDSCAPE**

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 3D Systems Inc.

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

- 14.3.2 Arkema S.A.
  - 14.3.2.1 Company Overview
  - 14.3.2.2 Product Portfolio
  - 14.3.2.3 Financials
  - 14.3.2.4 SWOT Analysis
- 14.3.3 Carbon Inc.
  - 14.3.3.1 Company Overview
  - 14.3.3.2 Product Portfolio
- 14.3.4 Clariant AG
  - 14.3.4.1 Company Overview
  - 14.3.4.2 Product Portfolio
  - 14.3.4.3 Financials
- 14.3.5 EOS
  - 14.3.5.1 Company Overview
  - 14.3.5.2 Product Portfolio
  - 14.3.5.3 SWOT Analysis
- 14.3.6 Formlabs
  - 14.3.6.1 Company Overview
  - 14.3.6.2 Product Portfolio
- 14.3.7 H?gan?s AB
  - 14.3.7.1 Company Overview
  - 14.3.7.2 Product Portfolio
- 14.3.8 Markforged
  - 14.3.8.1 Company Overview
  - 14.3.8.2 Product Portfolio
- 14.3.9 Materialise NV
  - 14.3.9.1 Company Overview
  - 14.3.9.2 Product Portfolio
  - 14.3.9.3 Financials
- 14.3.10 Sandvik AB
  - 14.3.10.1 Company Overview
  - 14.3.10.2 Product Portfolio
  - 14.3.10.3 Financials
  - 14.3.10.4 SWOT Analysis
- 14.3.11 Stratasys Ltd.
  - 14.3.11.1 Company Overview
  - 14.3.11.2 Product Portfolio
  - 14.3.11.3 Financials
- 14.3.12 Taulman3d LLC

14.3.12.1 Company Overview

14.3.12.2 Product Portfolio

## List Of Tables

### LIST OF TABLES

Table 1: Global: 3D Printing Materials Market: Key Industry Highlights, 2021 and 2027

Table 2: Global: 3D Printing Materials Market Forecast: Breakup by Type (in Million US\$), 2022-2027

Table 3: Global: 3D Printing Materials Market Forecast: Breakup by Form (in Million US\$), 2022-2027

Table 4: Global: 3D Printing Materials Market Forecast: Breakup by End User (in Million US\$), 2022-2027

Table 5: Global: 3D Printing Materials Market Forecast: Breakup by Region (in Million US\$), 2022-2027

Table 6: Global: 3D Printing Materials Market: Competitive Structure

Table 7: Global: 3D Printing Materials Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: 3D Printing Materials Market: Major Drivers and Challenges

Figure 2: Global: 3D Printing Materials Market: Sales Value (in Billion US\$), 2016-2021

Figure 3: Global: 3D Printing Materials Market Forecast: Sales Value (in Billion US\$), 2022-2027

Figure 4: Global: 3D Printing Materials Market: Breakup by Type (in %), 2021

Figure 5: Global: 3D Printing Materials Market: Breakup by Form (in %), 2021

Figure 6: Global: 3D Printing Materials Market: Breakup by End User (in %), 2021

Figure 7: Global: 3D Printing Materials Market: Breakup by Region (in %), 2021

Figure 8: Global: 3D Printing Materials (Polymers) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 9: Global: 3D Printing Materials (Polymers) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 10: Global: 3D Printing Materials (Metals) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 11: Global: 3D Printing Materials (Metals) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 12: Global: 3D Printing Materials (Ceramic) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 13: Global: 3D Printing Materials (Ceramic) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 14: Global: 3D Printing Materials (Other Types) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 15: Global: 3D Printing Materials (Other Types) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 16: Global: 3D Printing Materials (Powder) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 17: Global: 3D Printing Materials (Powder) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 18: Global: 3D Printing Materials (Filament) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 19: Global: 3D Printing Materials (Filament) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 20: Global: 3D Printing Materials (Liquid) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 21: Global: 3D Printing Materials (Liquid) Market Forecast: Sales Value (in

Million US\$), 2022-2027

Figure 22: Global: 3D Printing Materials (Consumer Products) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 23: Global: 3D Printing Materials (Consumer Products) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 24: Global: 3D Printing Materials (Aerospace and Defense) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 25: Global: 3D Printing Materials (Aerospace and Defense) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 26: Global: 3D Printing Materials (Automotive) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 27: Global: 3D Printing Materials (Automotive) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 28: Global: 3D Printing Materials (Healthcare) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 29: Global: 3D Printing Materials (Healthcare) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 30: Global: 3D Printing Materials (Education and Research) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 31: Global: 3D Printing Materials (Education and Research) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 32: Global: 3D Printing Materials (Other End Users) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 33: Global: 3D Printing Materials (Other End Users) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 34: North America: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 35: North America: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 36: United States: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 37: United States: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 38: Canada: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 39: Canada: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 40: Asia-Pacific: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 41: Asia-Pacific: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 42: China: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 43: China: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 44: Japan: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 45: Japan: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 46: India: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 47: India: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 48: South Korea: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 49: South Korea: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 50: Australia: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 51: Australia: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 52: Indonesia: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 53: Indonesia: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 54: Others: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 55: Others: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 56: Europe: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 57: Europe: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 58: Germany: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 59: Germany: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 60: France: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 &

2021

Figure 61: France: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 62: United Kingdom: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 63: United Kingdom: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 64: Italy: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 65: Italy: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 66: Spain: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 67: Spain: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 68: Russia: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 69: Russia: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 70: Others: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 71: Others: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 72: Latin America: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 73: Latin America: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 74: Brazil: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 75: Brazil: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 76: Mexico: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 77: Mexico: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 78: Others: 3D Printing Materials Market: Sales Value (in Million US\$), 2016 & 2021

Figure 79: Others: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 80: Middle East and Africa: 3D Printing Materials Market: Sales Value (in Million



US\$), 2016 & 2021

Figure 81: Middle East and Africa: 3D Printing Materials Market: Breakup by Country (in %), 2021

Figure 82: Middle East and Africa: 3D Printing Materials Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 83: Global: 3D Printing Materials Industry: SWOT Analysis

Figure 84: Global: 3D Printing Materials Industry: Value Chain Analysis

Figure 85: Global: 3D Printing Materials Industry: Porter's Five Forces Analysis

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