

Asia Pacific Plastics for SLS 3D Printing Market Forecast to 2030 - Regional Analysis - by Type (Polyamide, Thermoplastic Polyurethane (TPU), Polyether Ether Ketone (PEEK), and Others) and End-Use Industry (Healthcare, Aerospace & Defense, Automotive, Electronics, Others)

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Abstracts

The Asia Pacific plastics for SLS 3D printing market was valued at US\$ 26.74 million in 2022 and is expected to reach US\$ 118.13 million by 2030; it is estimated to record a CAGR of 20.4% from 2022 to 2030.

Increasing Demand for SLS 3D Printing from the Healthcare Industry Boosts Asia Pacific Plastics for SLS 3D Printing Market

In the healthcare industry, there is a rise in the production of patient-specific implants and prosthetics. For instance, in orthopedics, SLS has been used to manufacture customized hip and knee implants tailored to a patient's unique anatomy. Such implants improve comfort and reduce the risk of complications, leading to enhanced patient outcomes. In the dental field, SLS 3D printing has become indispensable for creating highly accurate models, crowns, bridges, and dentures. For instance, dental laboratories are adopting SLS technology to meet the growing demand for precision dental restorations, offering patients better-fitting and more durable solutions. Additionally, SLS is being employed for surgical planning and training. Hospitals and medical institutions use SLS-printed anatomical models to simulate and practice complex surgeries. Surgeons can refine their techniques, minimizing risks during actual procedures. This has become particularly relevant for intricate surgeries, such as neurosurgery or craniofacial reconstructions. Furthermore, SLS technology is widely

used in the field of pharmaceuticals, which includes the increasing use of SLS to create personalized drug delivery systems, allowing for patient-specific medications with precise dosages. This has the potential to revolutionize medication effectiveness and patient care. In the prosthetics sector, SLS-printed components are contributing to enhanced functionality and comfort for amputees. Prosthetic limbs are becoming lighter and more customizable, offering a better quality of life for individuals in need of these devices. Hence, the increasing utilization from the healthcare sector is likely to offer several opportunities for the global plastic for SLS 3D printing market during the forecast period.

Asia Pacific Plastics for SLS 3D Printing Market Overview

Asia Pacific is home to some of the world's largest manufacturing economies, such as China, Japan, and South Korea. These countries are investing heavily in advanced manufacturing technologies such as SLS 3D printing. The region also has the presence of additive manufacturing and SLS 3D printing companies. In 2021, Sindoh, the South Korea-based specialist of both 2D and 3D printers, introduced Sindoh S100, an industrial polymer 3D printer based on SLS technology. Sindoh S100 is a 3D printer that features Bluesint PA12 technology to 3D print with up to 100% recycled powder. Further, the rapidly growing manufacturing sector and rising application in the end-use industries are boosting the demand for SLS 3D printing. SLS 3D printing is used to produce lightweight and durable components for aircraft and spacecraft. SLS 3D printing is also used to produce prototypes and functional components for vehicles. Asia Pacific is home to major automotive companies, including Toyota Motor Corporation, Tata Motors Ltd, Hyundai Motor Company, Nissan Motor Co Ltd, and Honda Motor Co Ltd. According to a report published by the China Passenger Car Association, in 2022, Tesla Inc. delivered 83,135 made-in-China electric vehicles, indicating growth in sales of electric vehicles from 2021. As per the International Organization of Motor Vehicle Manufacturers report, in 2021, motor vehicle production in Asia Pacific was estimated to be ~46.73 million units. Furthermore, passenger car production in the region increased from 35.82 million in 2020 to 38.15 million in 2021. Therefore, the presence of major SLS 3D printing companies and the developing automotive industry in the region are expected to boost the growth of the plastics for SLS printing market during the forecast period.

Asia Pacific Plastics for SLS 3D Printing Market Revenue and Forecast to 2030 (US\$ Million)

Asia Pacific Plastics for SLS 3D Printing Market Segmentation

The Asia Pacific plastics for SLS 3D printing market is segmented based on type, end-use industry, and country.

Based on type, the Asia Pacific plastics for SLS 3D printing market is categorized into polyamide, thermoplastic polyurethane (TPU), polyether ether ketone (PEEK), and others. The polyamide segment held the largest Asia Pacific plastics for SLS 3D printing market share in 2022.

In terms of end-use industry, the Asia Pacific plastics for SLS 3D printing market is segmented into healthcare, aerospace & defense, automotive, electronics, and others. The electronics segment held the largest Asia Pacific plastics for SLS 3D printing market share in 2022.

Based on country, the Asia Pacific plastics for SLS 3D printing market is segmented into Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. China dominated the Asia Pacific plastics for SLS 3D printing market in 2022.

3D Systems Corp, BASF SE, Evonik Industries AG, Arkema SA, Ensinger GmbH, Stratasys Ltd, and EOS GmbH are some of the leading companies operating in the Asia Pacific plastics for SLS 3D printing market.

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. ASIA PACIFIC PLASTICS FOR SLS 3D PRINTING MARKET LANDSCAPE

- 4.1 Overview
- 4.2 Porter's Five Forces Analysis
 - 4.2.1 Bargaining Power of Buyers
 - 4.2.2 Bargaining Power of Suppliers
 - 4.2.3 Threat of New Entrants
 - 4.2.4 Threat of Substitutes
 - 4.2.5 Intensity of Competitive Rivalry
- 4.3 Ecosystem Analysis
 - 4.3.1 Raw Material Suppliers:
 - 4.3.2 Manufacturers:
 - 4.3.3 Distributors/Suppliers:
 - 4.3.4 End Users:

5. ASIA PACIFIC PLASTICS FOR SLS 3D PRINTING MARKET - KEY MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Advancements in SLS-Compatible Plastic Materials
 - 5.1.2 Growing Demand for Lightweight and Durable Parts in Various Industries

5.2 Market Restraints

5.2.1 High Cost of SLS-Compatible Plastics

5.3 Market Opportunity

5.3.1 Increasing Demand for SLS 3D Printing from the Healthcare Industry

5.4 Future Trend

5.4.1 Adoption of Recyclable Materials for SLS 3D Printing

5.5 Impact Analysis

6. PLASTICS FOR SLS 3D PRINTING MARKET - ASIA PACIFIC MARKET ANALYSIS

6.1 Asia Pacific Plastics for SLS 3D Printing Market Revenue (US\$ Million)

6.2 Asia Pacific Plastics for SLS 3D Printing Market Volume (Tons)

6.3 Asia Pacific Plastics for SLS 3D Printing Market Forecast and Analysis

7. ASIA PACIFIC PLASTICS FOR SLS 3D PRINTING MARKET ANALYSIS - TYPE

7.1 Polyamide

7.1.1 Overview

7.1.2 Polyamide: Asia Pacific Plastics for SLS 3D Printing Market Revenue and Forecast to 2030 (US\$ Million)

7.1.3 Polyamide: Asia Pacific Plastics for SLS 3D Printing Market Volume and Forecast to 2030 (Tons)

7.1.3.1 PA11

7.1.3.1.1 PA11: Asia Pacific Plastics for SLS 3D Printing Market - Revenue and Forecast to 2030 (US\$ Million)

7.1.3.1.2 PA11: Asia Pacific Plastics for SLS 3D Printing Market - Volume and Forecast to 2030 (Tons)

7.1.3.2 PA12

7.1.3.2.1 PA12: Asia Pacific Plastics for SLS 3D Printing Market - Revenue and Forecast to 2030 (US\$ Million)

7.1.3.2.2 PA12: Asia Pacific Plastics for SLS 3D Printing Market - Volume and Forecast to 2030 (Tons)

7.2 Thermoplastic Polyurethane

7.2.1 Overview

7.2.2 Thermoplastic Polyurethane: Asia Pacific Plastics for SLS 3D Printing Market Revenue and Forecast to 2030 (US\$ Million)

7.2.3 Thermoplastic Polyurethane: Asia Pacific Plastics for SLS 3D Printing Market Volume and Forecast to 2030 (Tons)

7.3 Polyether Ether Ketone

7.3.1 Overview

7.3.2 Polyether Ether Ketone: Asia Pacific Plastics for SLS 3D Printing Market Revenue and Forecast to 2030 (US\$ Million)

7.3.3 Polyether Ether Ketone: Asia Pacific Plastics for SLS 3D Printing Market Volume and Forecast to 2030 (Tons)

7.4 Others

7.4.1 Overview

7.4.2 Others: Asia Pacific Plastics for SLS 3D Printing Market Revenue and Forecast to 2030 (US\$ Million)

7.4.3 Others: Asia Pacific Plastics for SLS 3D Printing Market Volume and Forecast to 2030 (Tons)

8. ASIA PACIFIC PLASTICS FOR SLS 3D PRINTING MARKET ANALYSIS - END-USE INDUSTRY

8.1 Healthcare

8.1.1 Overview

8.1.2 Healthcare: Asia Pacific Plastics for SLS 3D Printing Market Revenue and Forecast to 2030 (US\$ Million)

8.2 Aerospace and Defense

8.2.1 Overview

8.2.2 Aerospace and Defense : Asia Pacific Plastics for SLS 3D Printing Market Revenue and Forecast to 2030 (US\$ Million)

8.3 Automotive

8.3.1 Overview

8.3.2 Automotive: Asia Pacific Plastics for SLS 3D Printing Market Revenue and Forecast to 2030 (US\$ Million)

8.4 Electronics

8.4.1 Overview

8.4.2 Electronics: Asia Pacific Plastics for SLS 3D Printing Market Revenue and Forecast to 2030 (US\$ Million)

8.5 Others

8.5.1 Overview

8.5.2 Others: Asia Pacific Plastics for SLS 3D Printing Market Revenue and Forecast to 2030 (US\$ Million)

9. ASIA PACIFIC PLASTICS FOR SLS 3D PRINTING MARKET - COUNTRY ANALYSIS

9.1 Asia Pacific Plastics for SLS 3D Printing Market

9.1.1 Asia Pacific Plastics for SLS 3D Printing Market Breakdown by Country

9.1.1.1 Asia Pacific Plastics for SLS 3D Printing Market Breakdown by Country

9.1.1.2 Australia Plastics for SLS 3D Printing Market Revenue and Forecasts to 2030 (US\$ Million)

9.1.1.3 Australia Plastics for SLS 3D Printing Market Volume and Forecasts to 2030 (Tons)

9.1.1.3.1 Australia Plastics for SLS 3D Printing Market Breakdown by Type

9.1.1.3.2 Australia Plastics for SLS 3D Printing Market Breakdown by End-Use Industry

9.1.1.4 China Plastics for SLS 3D Printing Market Revenue and Forecasts to 2030 (US\$ Million)

9.1.1.5 China Plastics for SLS 3D Printing Market Volume and Forecasts to 2030 (Tons)

9.1.1.5.1 China Plastics for SLS 3D Printing Market Breakdown by Type

9.1.1.5.2 China Plastics for SLS 3D Printing Market Breakdown by End-Use Industry

9.1.1.6 India Plastics for SLS 3D Printing Market Revenue and Forecasts to 2030 (US\$ Million)

9.1.1.7 India Plastics for SLS 3D Printing Market Volume and Forecasts to 2030 (Tons)

9.1.1.7.1 India Plastics for SLS 3D Printing Market Breakdown by Type

9.1.1.7.2 India Plastics for SLS 3D Printing Market Breakdown by End-Use Industry

9.1.1.8 Japan Plastics for SLS 3D Printing Market Revenue and Forecasts to 2030 (US\$ Million)

9.1.1.9 Japan Plastics for SLS 3D Printing Market Volume and Forecasts to 2030 (Tons)

9.1.1.9.1 Japan Plastics for SLS 3D Printing Market Breakdown by Type

9.1.1.9.2 Japan Plastics for SLS 3D Printing Market Breakdown by End-Use Industry

9.1.1.10 South Korea Plastics for SLS 3D Printing Market Revenue and Forecasts to 2030 (US\$ Million)

9.1.1.11 South Korea Plastics for SLS 3D Printing Market Volume and Forecasts to 2030 (Tons)

9.1.1.11.1 South Korea Plastics for SLS 3D Printing Market Breakdown by Type

9.1.1.11.2 South Korea Plastics for SLS 3D Printing Market Breakdown by End-Use Industry

9.1.1.12 Rest of Asia Pacific Plastics for SLS 3D Printing Market Revenue and Forecasts to 2030 (US\$ Million)

9.1.1.13 Rest of Asia Pacific Plastics for SLS 3D Printing Market Volume and Forecasts to 2030 (Tons)

9.1.1.13.1 Rest of Asia Pacific Plastics for SLS 3D Printing Market Breakdown by Type

9.1.1.13.2 Rest of Asia Pacific Plastics for SLS 3D Printing Market Breakdown by End-Use Industry

10. INDUSTRY LANDSCAPE

10.1 Overview

10.2 Merger and Acquisition

10.3 Other Business Strategies

11. COMPANY PROFILES

11.1 3D Systems Corp

11.1.1 Key Facts

11.1.2 Business Description

11.1.3 Products and Services

11.1.4 Financial Overview

11.1.5 SWOT Analysis

11.1.6 Key Developments

11.2 BASF SE

11.2.1 Key Facts

11.2.2 Business Description

11.2.3 Products and Services

11.2.4 Financial Overview

11.2.5 SWOT Analysis

11.2.6 Key Developments

11.3 Evonik Industries AG

11.3.1 Key Facts

11.3.2 Business Description

11.3.3 Products and Services

11.3.4 Financial Overview

11.3.5 SWOT Analysis

11.3.6 Key Developments

11.4 Arkema SA

11.4.1 Key Facts

11.4.2 Business Description

- 11.4.3 Products and Services
- 11.4.4 Financial Overview
- 11.4.5 SWOT Analysis
- 11.4.6 Key Developments
- 11.5 Ensinger GmbH
 - 11.5.1 Key Facts
 - 11.5.2 Business Description
 - 11.5.3 Products and Services
 - 11.5.4 Financial Overview
 - 11.5.5 SWOT Analysis
 - 11.5.6 Key Developments
- 11.6 Stratasys Ltd
 - 11.6.1 Key Facts
 - 11.6.2 Business Description
 - 11.6.3 Products and Services
 - 11.6.4 Financial Overview
 - 11.6.5 SWOT Analysis
 - 11.6.6 Key Developments
- 11.7 EOS GmbH
 - 11.7.1 Key Facts
 - 11.7.2 Business Description
 - 11.7.3 Products and Services
 - 11.7.4 Financial Overview
 - 11.7.5 SWOT Analysis
 - 11.7.6 Key Developments

12. APPENDIX

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Product name: Asia Pacific Plastics for SLS 3D Printing Market Forecast to 2030 - Regional Analysis - by Type (Polyamide, Thermoplastic Polyurethane (TPU), Polyether Ether Ketone (PEEK), and Others) and End-Use Industry (Healthcare, Aerospace & Defense, Automotive, Electronics, Others)

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