

North America 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 North America plastics for SLS 3D printing market was valued at US\$ 55.17 million in 2022 and is expected to reach US\$ 214.68 million by 2030; it is estimated to grow at a CAGR of 18.5% from 2022 to 2030.

Advancements in SLS-Compatible Plastic Materials Fuel North America Plastics for SLS 3D Printing Market

Many companies are focused on the continuous development of SLS-compatible plastic materials with improved properties, such as durability, heat resistance, and flexibility. For instance, companies such as HP and BASF have been collaborating to develop innovative SLS materials. They have introduced PA11 and PA12 nylon materials that exhibit not only improved strength but also increased flexibility, making them suitable for applications ranging from automotive components to consumer goods. These materials are designed to withstand extreme conditions while maintaining their integrity. Moreover, advancements in heat-resistant plastics are becoming increasingly relevant, especially in the aerospace and industrial sectors. Advanced materials, such as ULTEM, are known for their exceptional heat resistance and flame-retardant properties. These materials have found applications in producing aircraft interiors and components for critical machinery operating in high-temperature environments. In the healthcare sector, the development of biocompatible plastic materials for SLS has enabled the

creation of patient-specific implants and surgical tools. These materials not only exhibit high strength and flexibility but also meet stringent biocompatibility standards. Therefore, rising awareness regarding the development of SLS-compatible plastic materials is propelling their use in different application sectors such as automotive, aerospace & defense, and healthcare, thereby driving the North America plastic for SLS 3D printing market.

North America Plastics for SLS 3D Printing Market Overview

SLS 3D printing is increasingly adopted in a wide range of industries, such as aerospace, automotive, healthcare, and manufacturing. This is due to the advantages of SLS 3D printing over conventional manufacturing methods, such as the ability to produce complex and customized parts with high precision and accuracy. SLS 3D printing is well-suited for prototyping and rapid manufacturing applications because SLS 3D printers can produce high-quality parts in a relatively short amount of time. SLS 3D printing is also employed for rapid prototyping and manufacturing of medical devices, surgical equipment, diagnostic tools, prosthetics, and implants. The presence of SLS 3D printing companies in the region is further expected to boost the demand for plastics for SLS 3D printing. SLS 3D printing companies are strategizing business expansion to cater to the rising demand from end-use industries. For instance, in 2023, Nexa3D announced the acquisition of XYZ Printing's SLS printing operations.

The growth of automotive and aerospace industries in the region is further anticipated to create lucrative opportunities for plastics for the SLS 3D printing market. As per the International Organization of Motor Vehicle Manufacturers, in 2022, North America registered a production of 14.79 million vehicles. As per a report by the American Automotive Policy Council, car sales in the region are expected to exceed 17.7 million vehicles per year by 2025. North America marks the presence of several aerospace companies, such as Precision Castparts Corp, Spirit AeroSystems, Textron, General Dynamics, L3Harris Technologies, and GE Aviation. According to a report by the International Trade Administration (ITA), the government of Canada allocated US\$ 1.36 billion through the Federal Strategic Innovation Fund to support the aerospace sector in 2021-2022. Canada ranks among the top 5 aerospace goods export markets for the US, and it exported 56.6% of goods required in US-based industries manufacturing aircraft, engines, and components in 2021. SLS 3D printing is used for manufacturing varied aerospace components, including jet engines, fixtures, brackets, turbine blades, ducting systems, heat exchangers, and fuel nozzles. Therefore, the growth of automotive and aerospace industries in the region is expected to drive the demand for plastics for SLS 3D printing.

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

North America Plastics for SLS 3D Printing Market Segmentation

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

Based on type, the North America 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 North America plastics for SLS 3D printing market share in 2022.

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

Based on country, the North America plastics for SLS 3D printing market is segmented into the US, Canada, and Mexico. The US dominated the North America plastics for SLS 3D printing market in 2022.

3D Systems Corp, BASF SE, Evonik Industries AG, Arkema SA, Ensinger GmbH, Stratasys Ltd, Sinterit Sp Zoo, EOS GmbH, and CRP Service SRL are some of the leading companies operating in the North America plastics for SLS 3D printing market.

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