

# **Polyamide 11 & 12 Market in 3D Printing by Polyamide Type (PA 11, PA 12), End User Industry (Aerospace & Defense, Healthcare, Consumer Goods, Automotive) and Geography (North America, Europe, Asia-Pacific, Rest Of World) - Global Forecast to 2020**

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## **Abstracts**

PA11 and PA12 market in 3D printing projected to reach USD 48.6 million by scenario one and USD 85.1million by scenario two by 2020.

The PA11 and PA12 market in 3D printing is forecasted based on two scenarios as its growth is primarily based on the adoption of 3D printing technology by end-use industries. Scenario one represents comparatively normal growth whereas scenario two projects exponential growth. The PA11 and PA12 market in 3D printing is projected to reach USD 48.6 million by 2020, at a CAGR of 26.59% from 2015 to 2020, by scenario one with a comparatively normal growth. By scenario two, the market is expected to reach USD 85.1 million by 2020 at an exponential CAGR of 41.2%. Factors driving the growth in scenario two include rate of adoption in automotive industry. PA 11 and PA12 are particularly used for laser sintering technology in 3D printing. The increasing usage of 3D printing in healthcare and aerospace & defense sectors for highly customized parts is one of the key factors driving the growth of PA 11 and PA12 market in 3D printing. Availability is another factor that has a positive impact on increased applications for PA12 as several players have well-established supply base across the globe.

Healthcare and aerospace & defense segments are projected to be the largest segments of the market by 2020.

The healthcare and aerospace & defense segments together accounted for a share of

more than 50% of the PA11 and PA12 market in 3D printing. This can be attributed to the increased utilization of PA11 and PA12 in laser sintering for specialized body parts in end-use industries. Automotive is another key industry where 3D printing is used for rapid prototyping. Major transition in automotive industry for 3D printing and eventually materials used will occur when this technology will be used for mass customization.

North America market to register high growth in the PA11 and PA12 market in 3D printing by 2020.

The PA11 and PA12 market in 3D printing in North America is expected to register high growth owing to large number of end-use industries adopting 3D printing technology in the U.S., Canada, and Mexico. North America and Europe are having high market share and are expected to dominate the market till 2020 due to established distribution systems and high adoption rate of 3D printing by end-use industries in the region. Healthcare and aerospace & defense are the two key end users in the region. The U.S. is a major consumer of PA 11 and PA 12 in North America, followed by Canada and Mexico.

PA11 in 3D printing is projected to register high growth owing to its advantages such as enhanced machining performance for laser sintering

PA11, a bio-based polyamide derived from castor oil seeds, is expected to register high growth during the forecast period owing to its advantages such as increased machining performance for laser sintering technology in 3D printing and as a better option to petroleum-based PA12. PA12 will dominate the market in comparison to PA11 as it has a comparatively established market for laser sintering with large number of grades developed such as impact resistant (IR), fire resistant (FR), and others used by various end-use industries.

#### BREAKDOWN OF PROFILE OF PRIMARY PARTICIPANTS:

By Company Type: Tier 1 - 50 %, Tier 2 - 37%, and Tier 3 - 13%

By Designation: C Level - 50%, Director Level - 31%, and Others - 19%

By Region: North America - 31%, APAC - 38%, Europe - 25%, and RoW - 6%

As a part of qualitative analysis, the report provides a comprehensive review of the major market drivers, restraints, opportunities, challenges, and regulations. It also discusses competitive strategies adopted by market players across different regions. The companies profiled in this report are EOS GmbH (Germany), 3D Systems (U.S.), Stratasys (U.S.), Arkema SA (France), Evonik AG (Germany), CRP Group (Italy), Golden Plastics (China), and others.

Reasons to buy this report:

This report covers the following key aspects:

What will be the market size by 2020 and what will be the growth rate

What are the key market trends

What are the factors expected to drive the market growth

What are the challenges that impact market growth

Who are the key players in this market

Global report covers key regions such as North America, Europe, and Asia-Pacific, including major countries in these regions

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