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

Description: PA11 and PA12 market in 3D printing projected to reach USD 48.6 million by scenario one and USD 85.1 million 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

Contents:
1 Introduction
   1.1 Market Definition
   1.2 Objectives of the Study
   1.3 Markets Covered
   1.4 Stakeholders
   1.5 Material Flow System

2 Research Methodology
   2.1 Polyamide 11 & 12 Market, By End-User Industry
   2.2 Data Triangulation
   2.3 Arriving at Global Market Size
      2.3.1 Top Down Approach
      2.3.2 Bottom-Up Approach
      2.3.3 Demand-Side Approach
      2.3.4 Supply-Side Approach
   2.4 Assumptions
      2.4.1 Growth Scenarios - 1 and 2

3 Executive Summary
   3.1 Market Overview
   3.2 Pa11 & Pa12: Comparison
   3.3 Scenario One
   3.4 Scenario Two

4 Premium Insights
   4.1 Market Share Distribution
      4.1.1 Polyamide 11 Market in 3D Printing
      4.1.2 Polyamide 12 Market in 3D Printing
   4.2 Global Scenario
      4.2.1 Polyamide 11 Market in 3D Printing
      4.2.2 Polyamide 12 Market in 3D Printing
   4.3 Attractive Market Opportunities
      4.3.1 Scenario 1
      4.3.2 Scenario 2

5 Market Overview
   5.1 Market Overview
   5.2 Pa11 and Pa12: Key Properties
   5.3 Pa11 and Pa12: Material Flow Structure
   5.4 Value Chain Analysis
   5.5 Pa12 - Different Grades Available in Market
   5.6 Market Dynamics
      5.6.1 Drivers
      5.6.2 Restraints
      5.6.3 Opportunities
   5.7 Peer Market Comparison
   5.8 Market Trends in 3D Printing Materials Market
   5.9 Substitutes of Pa11 and Pa12 in 3D Printing
   5.10 Porter's Five Forces Model

6 Polyamide 11 & 12 Market in 3D Printing, By End User Industry
   6.1 Comparison Between Scenario 1 & 2
   6.2 Scenario 1
      6.2.1 Polyamide 11 Market in 3D Printing
      6.2.2 Polyamide 12 Market in 3D Printing
   6.3 Scenario 2
      6.3.1 Polyamide 11 Market in 3D Printing
      6.3.2 Polyamide 12 Market in 3D Printing
7 Polyamide 11 & 12 Market in 3D Printing, By Geography
   7.1 Comparison Between Scenario 1 & 2
   7.2 North America
      7.2.1 Scenario 1 & 2: Polyamide 11 Market
      7.2.2 Scenario 1 & 2: Polyamide 12 Market
   7.3 Europe
      7.3.1 Scenario 1 & 2: Polyamide 11 Market
      7.3.2 Scenario 1 & 2: Polyamide 12 Market
   7.4 Asia-Pacific
      7.4.1 Scenario 1 & 2: Polyamide 11 Market
      7.4.2 Scenario 1 & 2: Polyamide 12 Market
   7.5 Rest of the World
      7.5.1 Scenario 1 & 2: Polyamide 11 Market
      7.5.2 Scenario 1 & 2: Polyamide 12 Market

8 Competitive Landscape
   8.1 Competitive Situation & Trends
      8.1.1 Overview
      8.1.2 By Developments
      8.1.3 By Companies
      8.1.4 By Recent Years
   8.2 Recent Developments

9 Company Profiles
   9.1 Geographic Revenue Mix of Key Players
   9.2 3D Systems
      9.2.1 Company Overview
      9.2.2 Key Developments
      9.2.3 SWOT Analysis
      9.2.4 MnM View
   9.3 Stratasys, Ltd.
      9.3.1 Company Overview
      9.3.2 Key Developments
      9.3.3 SWOT Analysis
      9.3.4 MnM View
   9.4 Evonik Industries AG
      9.4.1 Company Overview
      9.4.2 Key Developments
      9.4.3 SWOT Analysis
      9.4.4 MnM View
   9.5 Arkema S.A.
      9.5.1 Company Overview
      9.5.2 Key Developments
      9.5.3 SWOT Analysis
      9.5.4 MnM View
   9.6 EOS GmbH
      9.6.1 Company Overview
      9.6.2 Product Portfolio
      9.6.3 Key Developments
      9.6.4 SWOT Analysis
      9.6.5 MnM View
   9.7 CRP Group
      9.7.1 Company Overview
      9.7.2 Product Portfolio
      9.7.3 MnM View
   9.8 Golden Plastics
      9.8.1 Company Overview
      9.8.2 Product Portfolio
      9.8.3 MnM View

List of Tables
Table 1 Comparison Between PA11 & PA12, By Properties
Table 2 Polyamide 11 & 12 Market in 3D Printing: Comparison Between Scenario 1 and Scenario 2, 2013-2020 (USD Million)
Table 3 Key Properties of PA11 & PA12
Table 4 Scenario 1: Polyamide 11 Market in 3D Printing, By End User Industry, 2013-2020 (Tons)
Table 5 Scenario 1: PA11 Market in 3D Printing, By End User Industry, 2013-2020 (USD Million)
Table 6 Scenario 1: Polyamide 12 Market in 3D Printing, By End User Industry, 2013-2020 (Tons)
Table 7 Scenario 1: PA12 Market in 3D Printing, By End User Industry, 2013-2020 (USD Million)
Table 8 Scenario 2: Polyamide 11 Market in 3D Printing, By End User Industry, 2013-2020 (Tons)
Table 9 Scenario 2: PA11 Market in 3D Printing, By End User Industry, 2013-2020 (USD Million)
Table 10 Scenario 2: Polyamide 12 Market in 3D Printing, By End User Industry, 2013-2020 (Tons)
Table 11 Scenario 2: PA12 Market in 3D Printing, By End User Industry, 2013-2020 (USD Million)
Table 12 Scenario 1 & 2: North America Polyamide 11 Market in 3D Printing, 2013-2020 (Tons)
Table 13 Scenario 1 & 2: North America PA11 Market in 3D Printing, 2013-2020 (USD Million)
Table 14 Scenario 1 & 2: North America Polyamide 12 Market in 3D Printing, 2013-2020 (Tons)
Table 15 Scenario 1 & 2: North America PA12 Market in 3D Printing, 2013-2020 (USD Million)
Table 16 Scenario 1 & 2: Europe Polyamide 11 Market in 3D Printing, 2013-2020 (Tons)
Table 17 Scenario 1 & 2: Europe PA11 Market in 3D Printing, 2013-2020 (USD Million)
Table 18 Scenario 1 & 2: Europe Polyamide 12 Market in 3D Printing, 2013-2020 (Tons)
Table 19 Scenario 1 & 2: Europe PA12 Market in 3D Printing, 2013-2020 (USD Million)
Table 20 Scenario 1 & 2: Asia-Pacific Polyamide 11 Market in 3D Printing, 2013-2020 (Tons)
Table 21 Scenario 1 & 2: Asia-Pacific PA11 Market in 3D Printing, 2013-2020 (USD Million)
Table 22 Scenario 1 & 2: Asia-Pacific Polyamide 12 Market in 3D Printing, 2013-2020 (Tons)
Table 23 Scenario 1 & 2: Asia-Pacific PA12 Market in 3D Printing, 2013-2020 (USD Million)
Table 24 Scenario 1 & 2: RoW Polyamide 11 Market in 3D Printing, 2013-2020 (Tons)
Table 25 Scenario 1 & 2: RoW PA11 Market in 3D Printing, 2013-2020 (USD Million)
Table 26 Scenario 1 & 2: RoW Polyamide 12 Market in 3D Printing, 2013-2020 (Tons)
Table 27 Scenario 1 & 2: RoW PA12 Market in 3D Printing, 2013-2020 (USD Million)
Table 28 Polyamide 11 & 12 Market in 3D Printing: New Product/ Service/ Technology Launch
Table 29 Polyamide 11 Market & Polyamide 12 Market in 3D Printing: Mergers and Acquisitions
Table 30 Polyamide 11 & 12 Market in 3D Printing: Expansions and Investments
Table 31 Polyamide 11 & 12 Market in 3D Printing: Agreements and Joint Ventures
Table 32 3D Systems: Key Developments
Table 33 Stratasys, Ltd.: Key Developments
Table 34 Evonik Industries AG: Key Developments
Table 35 Arkema S.A.: Key Developments
Table 36 EOS GmbH: Product Portfolio
Table 37 EOS GmbH: Key Developments
Table 38 CRP Group: Products and Services
Table 39 Golden Plastics: Product Portfolio

List of Figures
Figure 1 Polyamide 11 Market & Polyamide 12 Market in 3D Printing : Market Segmentation
Figure 2 Polyamide 11 & 12 Market in 3D Printing: Material Flow System
Figure 3 PA11 Market & PA12 Market: End User Industry
Figure 4 PA11 & PA12 Market in 3D Printing : Data Triangulation
Figure 5 Arriving at Global Market Size: Top-Down Approach
Figure 6 Arriving at Global Market Size: Bottom-Up Approach
Figure 7 Arriving at Global Market Size: Demand Side Approach
Figure 8 Arriving at Global Market Size: Supply Side Approach
Figure 9 Polyamide 11 & 12 Market in 3D Printing : Years Considered for the Study
Figure 10 Polyamide 11 Market in 3D Printing : Market Share Distribution, 2015
Figure 11 Polyamide 12 Market in 3D Printing : Market Share Distribution, 2015
Figure 12 PA11 Marketing in 3D Printing : Global Scenario
Figure 13 PA12 Market in 3D Printing : Global Scenario
Figure 14 Scenario 1 - Polyamide 11 & 12 Market in 3D Printing : Attractive Market Opportunities
Figure 15 Scenario 2 - Polyamide 11 & 12 Market in 3D Printing : Attractive Market Opportunities
Figure 16 Polyamide 11 & 12 Market in 3D Printing: Comparison Between Scenario 1 and Scenario 2, 2014-2020 (%)
Figure 17 Polyamide 11 Market & Polyamide 12 Market in 3D Printing : Material Flow Structure
Figure 18 PA11 & PA12 Market in 3D Printing: Value Chain Analysis
Figure 19 Polyamide 12 - Different Grades Available in Market
Figure 20 PA11 Market & PA12 Market in 3D Printing: Market Dynamics
Figure 21 Polyamide 11 & 12 Market in 3D Printing: Peer Market Comparison
Figure 22 Polyamide 11 Market & Polyamide 12 Market in 3D Printing: Porter's Five Forces Model
Figure 23 Polyamide 11 & 12 Market in 3D Printing: Comparison Between Scenario 1 & 2 By End User, 2013-2015 (Tons)
Figure 24 Scenario 1: Polyamide 11 Market in 3D Printing, By End User Industry, 2013-2020 (Tons)
Figure 25 Scenario 1: PA11 Market in 3D Printing, By End User Industry, 2013-2020 (USD Million)
Figure 26 Scenario 1: Polyamide 12 Market in 3D Printing, By End User Industry, 2013-2020 (Tons)
Figure 27 Scenario 1: PA12 Market in 3D Printing, By End User Industry, 2013-2020 (USD Million)
Figure 28 Scenario 2: Polyamide 11 Market in 3D Printing, By End User Industry, 2013-2020 (Tons)
Figure 29 Scenario 2: PA11 Market in 3D Printing, By End User Industry, 2013-2020 (USD Million)
Figure 30 Scenario 2: Polyamide 12 Market in 3D Printing, By End User Industry, 2013-2020 (Tons)
Figure 31 Scenario 2: PA12 Market in 3D Printing, By End User Industry, 2013-2020 (USD Million)
Figure 32 Polyamide 11 & 12 Market in 3D Printing: Comparison Between Scenario 1 & 2, By Geography, 2013-2020 (Tons)
Figure 33 Scenario 1 & 2: North America Polyamide 11 Market in 3D Printing, 2013-2020 (Tons)
Figure 34 Scenario 1 & 2: North America PA11 Market in 3D Printing, 2013-2020 (USD Million)
Figure 35 Scenario 1 & 2: North America Polyamide 12 Market in 3D Printing, 2013-2020 (Tons)
Figure 36 Scenario 1 & 2: North America PA12 Market in 3D Printing, 2013-2020 (USD Million)
Figure 37 Scenario 1 & 2: Europe Polyamide 11 Market in 3D Printing, 2013-2020 (Tons)
Figure 38 Scenario 1 & 2: Europe PA11 Market in 3D Printing, 2013-2020 (USD Million)
Figure 39 Scenario 1 & 2: Europe Polyamide 12 Market in 3D Printing, 2013-2020 (Tons)
Figure 40 Scenario 1 & 2: Europe PA12 Market in 3D Printing, 2013-2020 (USD Million)
Figure 41 Scenario 1 & 2: Asia-Pacific Polyamide 11 Market in 3D Printing, 2013-2020 (Tons)
Figure 42 Scenario 1 & 2: Asia-Pacific PA11 Market in 3D Printing, 2013-2020 (USD Million)
Figure 43 Scenario 1 & 2: Asia-Pacific Polyamide 12 Market in 3D Printing, 2013-2020 (Tons)
Figure 44 Scenario 1 & 2: Asia-Pacific PA12 Market in 3D Printing, 2013-2020 (USD Million)
Figure 45 Scenario 1 & 2: RoW Polyamide 11 Market in 3D Printing, 2013-2020 (Tons)
Figure 46 Scenario 1 & 2: RoW PA11 Market in 3D Printing, 2013-2020 (USD Million)
Figure 47 Scenario 1 & 2: RoW Polyamide 12 Market in 3D Printing, 2013-2020 (Tons)
Figure 48 Scenario 1 & 2: RoW PA12 Market in 3D Printing, 2013-2020 (USD Million)
Figure 49 Polyamide 11 & 12 in 3D Printing: Key Growth Strategies
Figure 50 Polyamide 11 & 12 in 3D Printing: Company Developments, By Company (%)
Figure 51 Polyamide 11 & 12 in 3D Printing: Developments From 2012 to 2015
Figure 52 Polyamide 11 & 12 in 3D Printing: Geographic Revenue Mix of Key Players
Figure 53 3D Systems: SWOT Analysis
Figure 54 Stratasys, Ltd.: SWOT Analysis
Figure 55 Evonik Industries AG: SWOT Analysis
Figure 56 Arkema SA: SWOT Analysis
Figure 57 EOS GmbH: SWOT Analysis

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