3D Printing Materials Market by Type (Plastics, Metals, Ceramics, and Others), Form (Filament, Powder and Liquid), Application, and by Region - Global Forecasts to 2021

Description: “Increasing demand for the 3D printing technology in end-use industries is driving the 3D printing materials market”
The 3D printing materials market is estimated to grow from USD 530.1 million in 2016 to USD 1,409.5 million by 2021, at a CAGR of 21.60% between 2016 and 2021. Growth of the 3D printing materials market is largely associated with the increasing demand for 3D printing technology, which are used in various end-use industries such as aerospace & defense, medical & dental, automotive, and consumer goods. 3D printing technology offers various advantages such as design flexibility, cost effectiveness, and less wastage in designing of parts for various end-use industries.

“Aerospace & defense and medical & dental applications to drive the 3D printing materials market during the forecast period”
3D printing, the current revolutionary technology globally is competitively expanding its footprint in different applications. The aerospace & defense applications is expected to account for the largest market share during the forecast period. 3D metal printing is used in aerospace & defense industry for manufacturing complex parts such as jet wings, engine parts, space telescope, metal guns, rocket parts, and others. Companies are constantly introducing new 3D printing materials to cater to the increasing demand of 3D printing. Arcam AB introduced a new 3D printing material named Inconel 718, specifically for aerospace application. Medical & dental is also one of the major applications that use the 3D printing technology. Several medical products such as surgical equipment, prosthetics & implants, orthopedic, dental, and cranio-maxillofacial and tissue-engineered products are manufactured using the 3D printing technology.

“The North American region holds attractive opportunities for the 3D printing materials market”
North America dominated the 3D printing materials market in 2015 globally by both value and volume and the trend is expected to continue in the future. High growth in the aerospace & defense, automotive, and wind energy industries and increasing demand for 3D printing technology, especially from the aerospace & defense industry are expected to drive the 3D printing materials market in the region.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews were conducted as follows:-
- By Company Type: Tier 1 (50%), Tier 2 (37%), and Tier 3 (13%)
- By Designation: C-level (46%), Director Level (33%), and other (21%)
- By Region: North America (34%), Europe (31%), Asia-Pacific (23%), and RoW (12%)

Various key players profiled in the report are as follows:
1. 3D Systems Corporation (U.S.)
2. Arcam AB (Sweden)
3. Arkema S.A. (France)
4. Royal DSM N.V. (Netherlands)
5. ExOne GmbH (Germany)
6. Stratasys Ltd. (U.S.)
7. CRP Group (Italy)
8. EnvisionTEC GmbH (Germany)
9. EOS GmbH Electro Optical Systems (Germany)
10. LPW Technology Ltd. (U.K.)

Reasons to buy the report:
The report will help the market leaders/new entrants in this market in the following ways:
1. This report segments the 3D printing materials market comprehensively and provides the closest approximations of the revenue numbers for the overall market and the subsegments across different verticals and regions.
2. The report helps stakeholders to understand the pulse of the market and provides them information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to better understand the competitor and gain more insights to better
their position in the business. The competitive landscape section includes competitor ecosystem, new product developments, partnerships, exhibitions, and mergers & acquisitions.

Contents:

1 Introduction
1.1 Objectives of the Study
1.2 Market Definition
1.3 Scope of the Study
1.3.1 Markets Covered
1.3.2 Years Considered in the Report
1.4 Currency
1.5 Package Size
1.6 Stakeholders

2 Research Methodology
2.1 Research Data
2.1.1 Secondary Data
2.1.1.1 Key Data From Secondary Sources
2.1.2 Primary Data
2.1.2.1 Key Data From Primary Sources
2.1.2.2 Key Industry Insights
2.1.2.3 Breakdown of Primaries
2.2 Market Size Estimation
2.2.1 Bottom-Up Approach
2.2.2 Top-Down Approach
2.3 Market Breakdown and Data Triangulation
2.4 Research Assumptions
2.5 Limitations

3 Executive Summary

4 Premium Insights
4.1 3D Printing Materials Market (Value) By 2021
4.2 3D Printing Materials Market, By Application
4.3 3D Printing Materials Market, By Form
4.4 U.S. and Germany Account for Major Share of 3D Printing Materials Market
4.5 Life Cycle Analysis, By Region, 2015
4.6 3D Printing Materials Market, By Form

5 Market Overview
5.1 Market Dynamics
5.1.1 Drivers
5.1.1.1 Increasing Use of 3D Printing in Aerospace and Automotive Applications
5.1.1.2 Mass Customization
5.1.1.3 Adoption of 3D Printing for New Applications
5.1.1.4 Financial Support From Government
5.1.2 Restraints
5.1.2.1 High Material Costs
5.1.3 Opportunities
5.1.3.1 Adoption of 3D Printing Technology in Home Printing
5.1.4 Challenges
5.1.4.1 Production of Low-Cost 3D Printing Materials

6 Industry Trends
6.1 Value-Chain Analysis
6.2 Porter's Five Forces Analysis
6.2.1 Threat Of New Entrants
6.2.2 Threat of Substitutes
6.2.3 Bargaining Power of Buyers
6.2.4 Bargaining Power of Suppliers
6.2.5 Intensity of Rivalry

7 3D Printing Materials Market, By Type
List of Tables

Table 1 3D Printing Materials Market Size, By Resin Type, 2014-2021
Table 2 3D Printing Materials Market Size, By Plastic Materials, 2014-2021
Table 3 3D Printing Materials Market, By Material Type
Table 4 3D Printing Materials Market, By Form
Table 5 3D Printing Materials Market, By Application
Table 6 3D Printing Materials Market Size, By Type, 2014-2021 (Ton)
Table 7 3D Printing Materials Market Size, By Type, 2014-2021 (USD Million)
Table 8 3D Printing Plastic Materials Market Size, By Region, 2014-2021 (Ton)
Table 9 3D Printing Plastic Materials Market Size, By Region, 2014-2021 (USD Million)
Table 10 3D Printing Plastic Materials Market Size, By Type, 2014-2021 (Ton)
Table 11 3D Printing Plastic Materials Market Size, By Type, 2014-2021 (USD Million)
Table 12 3D Printing Metal Materials Market Size, By Region, 2014-2021 (Ton)
Table 13 3D Printing Metal Materials Market Size, By Region, 2014-2021 (USD Million)
Table 14 3D Printing Metal Materials Market Size, By Type, 2014-2021 (Ton)
Table 15 3D Printing Metal Materials Market Size, By Type, 2014-2021 (USD Million)
Table 16 3D Printing Ceramic Materials Market Size, By Region, 2014-2021 (Ton)
Table 17 3D Printing Ceramic Materials Market Size, By Region, 2014-2021 (USD Million)
Table 18 3D Printing Ceramic Materials Market Size, By Type, 2014-2021 (Ton)
Table 19 3D Printing Ceramic Materials Market Size, By Type, 2014-2021 (USD Million)
Table 20 Other 3D Printing Materials Market Size, By Region, 2014-2021 (Ton)
Table 21 Other 3D Printing Materials Market Size, By Region, 2014-2021 (USD Million)
Table 22 Other 3D Printing Materials Market Size, By Type, 2014-2021 (Ton)
Table 23 Other 3D Printing Materials Market Size, By Type, 2014-2021 (USD Million)
Table 24 3D Printing Materials Market Size, By Form, 2014-2021 (Ton)
Table 25 3D Printing Materials Market Size, By Form, 2014-2021 (USD Million)
Table 26 3D Printing Powder Materials Market Size, By Region, 2014-2021 (Ton)
Table 27 3D Printing Powder Materials Market Size, By Region, 2014-2021 (USD Million)
Table 28 3D Printing Filament Materials Market Size, By Region, 2014-2021 (Ton)
Table 29 3D Printing Filament Materials Market Size, By Region, 2014-2021 (USD Million)
Table 30 3D Printing Liquid Materials Market Size, By Region, 2014-2021 (Ton)
Table 31 3D Printing Liquid Materials Market Size, By Region, 2014-2021 (USD Million)
Table 32 3D Printing Materials Market Size, By Application, 2014-2021 (Ton)
Table 33 3D Printing Materials Market Size, By Application, 2014-2021 (USD Million)
Table 34 3D Printing Materials Market Size in Aerospace & Defense, By Region, 2014-2021 (Ton)
Table 35 3D Printing Materials Market Size in Aerospace & Defense, By Region, 2014-2021 (USD Million)
Table 36 3D Printing Materials Market Size in Medical & Dental, By Region, 2014-2021 (Ton)
Table 37 3D Printing Materials Market Size in Medical & Dental, By Region, 2014-2021 (USD Million)
Table 38 3D Printing Materials Market Size in Automotive, By Region, 2014-2021 (Ton)
Table 39 3D Printing Materials Market Size in Automotive, By Region, 2014-2021 (USD Million)
Table 40 3D Printing Materials Market Size in Consumer Goods, By Region, 2014-2021 (Ton)
Table 41 3D Printing Materials Market Size in Consumer Goods, By Region, 2014-2021 (USD Million)
Table 42 3D Printing Materials Market Size in Other Applications, By Region, 2014-2021 (Ton)
Table 43 3D Printing Materials Market Size in Other Applications, By Region, 2014-2021 (USD Million)
Table 44 3D Printing Materials Market Size, By Region, 2014-2021 (Ton)
Table 45 3D Printing Materials Market Size, By Region, 2014-2021 (USD Million)
Table 46 North America: 3D Printing Materials Market Size, By Country, 2014-2021 (Ton)
Table 47 North America: 3D Printing Materials Market Size, By Country, 2014-2021 (USD Million)
Table 48 North America: 3D Printing Materials Market Size, By Type of Plastic, 2014-2021 (Ton)
Table 49 North America: 3D Printing Materials Market Size, By Type of Plastic, 2014-2021 (USD Million)
Table 50 North America: 3D Printing Materials Market Size, By Type of Metal, 2014-2021 (Ton)
Table 51 North America: 3D Printing Materials Market Size, By Type of Metal, 2014-2021 (USD Million)
Table 52 Europe: 3D Printing Materials Market Size, By Country, 2014-2021 (Ton)
Table 53 Europe: 3D Printing Materials Market Size, By Country, 2014-2021 (USD Million)
Table 54 Europe: 3D Printing Materials Market Size, By Type of Plastic, 2014-2021 (Ton)
Table 55 Europe: 3D Printing Materials Market Size, By Type of Plastic, 2014-2021 (USD Million)
Table 56 Europe: 3D Printing Materials Market Size, By Type of Metal, 2014-2021 (Ton)
Table 57 Europe: 3D Printing Materials Market Size, By Type of Metal, 2014-2021 (USD Million)
Table 58 Asia-Pacific: 3D Printing Materials Market Size, By Country, 2014-2021 (Ton)
Table 59 Asia-Pacific: 3D Printing Materials Market Size, By Country, 2014-2021 (USD Million)
Table 60 Asia-Pacific: 3D Printing Materials Market Size, By Type of Plastic, 2014-2021 (Ton)
Table 61 Asia-Pacific: 3D Printing Materials Market Size, By Type of Plastic, 2014-2021 (USD Million)
Table 62 Asia-Pacific: 3D Printing Materials Market Size, By Type of Metal, 2014-2021 (Ton)
Table 63 Asia-Pacific: 3D Printing Materials Market Size, By Type of Metal, 2014-2021 (USD Million)
Table 64 RoW: 3D Printing Materials Market Size, By Country, 2014-2021 (Ton)
Table 65 RoW: 3D Printing Materials Market Size, By Country, 2014-2021 (USD Million)
Table 66 RoW: 3D Printing Materials Market Size, By Type of Plastic,2014-2021 (Ton)
Table 67 RoW: 3D Printing Materials Market Size, By Type of Plastic, 2014-2021 (USD Million)
Table 68 RoW: 3D Printing Materials Market Size, By Type of Metal,2014-2021 (Ton)
Table 69 RoW: 3D Printing Materials Market Size, By Type of Metal, 2014-2021 (USD Million)
Table 70 Expansions, 2010-2015
Table 71 Merger & Acquisitions 2010-2015
Table 72 New Product Launches/Developments, 2010-2015
Table 73 Partnership, Contracts, Agreements & Joint Ventures, 2010-2015

List of Figures

Figure 1 3D Printing Materials: Market Segmentation
Figure 2 3D Printing Materials Market: Research Design
Figure 3 Breakdown of Primary Interviews: By Company Type, Designation, and Region
Figure 4 Market Size Estimation Methodology: Bottom-Up Approach
Figure 5 Market Size Estimation Methodology: Top-Down Approach
Figure 6 Data Triangulation: 3D Printing Materials Market
Figure 7 Application Snapshot: Aerospace & Defense and Medical & Dental to Drive the Global 3D Printing Materials Market (Ton)
Figure 8 3D Printing Materials Market, By Country, 2015
Figure 9 3D Printing Materials Market Share, By Volume, 2015
Figure 10 Aerospace & Defense Application is Expected to Drive the Global 3D Printing Materials Market During the Forecast Period
Figure 11 Aerospace & Defense to Be the Major Application for 3D Printing Materials Market, By Value, 2014-2021
Figure 12 North America Dominates 3D Printing Materials Market, By Application
Figure 13 U.S. is Expected to Drive the 3D Printing Materials Market in North America
Figure 14 North America is Expected Experience Exponential Growth During the Forecast Period
Figure 15 Powder Form is Projected to Grow at the Highest Rate
Figure 16 Drivers, Restraints, Opportunities, and Challenges in 3D Printing Materials Market
Figure 17 Value-Chain Analysis
Figure 18 Porter's Five Forces Analysis of 3D Printing Materials Market
Figure 19 Metal Materials to Lead the 3D Printing Materials Market, 2016 vs. 2021
Figure 20 Nylon is Expected to Outpace Other Plastic Materials in 3D Printing Materials Market, 2016 vs. 2021
Figure 21 Asia-Pacific to Witness the Highest CAGR in 3D Printing Metal Materials Market, 2016 vs. 2021
Figure 22 Silica to Register Highest Market Size in 3D Printing Materials Market, 2016 vs 2021
Figure 23 Filament Form to Register Fastest-Growth in 3D Printing Materials Market, 2016 vs. 2021
Figure 24 Aerospace & Defense Application to Lead the 3D Printing Materials Market, 2016 vs. 2021
Figure 25 North America is Expected to Drive the 3D Printing Materials Market in Aerospace & Defense Application, 2016 vs. 2021
Figure 26 Asia-Pacific is Expected to Witness the Highest Growth Rate in the 3D Printing Materials Market in Automotive Application, 2016 vs. 2021
Figure 27 China and South Korea to Drive the 3D Printing Materials Market, By Region, 2016-2021
Figure 28 U.S. Dominated the North American 3D Printing Materials Market In2015
Figure 29 Germany is Estimated to Drive the 3D Printing Materials Market Between 2016 and 2021
Figure 30 Companies Adopted New Product Developments/Launches and Partnerships as the Key Growth Strategies During 2010-2015
Figure 31 Major Growth Strategies in 3D Printing Materials Market, 2010-2015
Figure 32 Developments in 3D Printing Materials Market, 2010-2015
Figure 33 3D Systems Corp.: Company Snapshot
Figure 34 3D Systems Corp.: SWOT Analysis
Figure 35 Arcam AB: Company Snapshot
Figure 36 Arcam AB: SWOT Analysis
Figure 37 Arkema S.A.: Company Snapshot
Figure 38 Arkema S.A.: SWOT Analysis
Figure 39 Royal DSM N.V.: Company Snapshot
Figure 40 Royal DSM N.V.: SWOT Analysis
Ordering:

Order Online - [http://www.researchandmarkets.com/reports/3696154/](http://www.researchandmarkets.com/reports/3696154/)

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: 3D Printing Materials Market by Type (Plastics, Metals, Ceramics, and Others), Form (Filament, Powder and Liquid), Application, and by Region - Global Forecasts to 2021
Web Address: http://www.researchandmarkets.com/reports/3696154/
Office Code: SCPL28OD

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User:</td>
<td>USD 5650</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 5 Users:</td>
<td>USD 6650</td>
</tr>
<tr>
<td>Electronic (PDF) - Site License:</td>
<td>USD 8150</td>
</tr>
<tr>
<td>Electronic (PDF) - Enterprisewide:</td>
<td>USD 10000</td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: Mr □ Mrs □ Dr □ Miss □ Ms □ Prof □
First Name: ___________________________ Last Name: ___________________________
Email Address: * ___________________________
Job Title: ___________________________
Organisation: ___________________________
Address: ___________________________
City: ___________________________
Postal / Zip Code: ___________________________
Country: ___________________________
Phone Number: ___________________________
Fax Number: ___________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ____________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World