

3D Printing High-Performance Plastic Market by Type (Polyamide (PA), Polyetherimide (PEI), Polyetheretherketone & Polyetherketoneketone (PEEK & PEKK), Reinforced HPP, Other Types), Form (Filament & Pellet and Powder), Technology (Fused Deposition Modeling (FDM)/Fused Filament Fabrication (FFF) and Selective Laser Sintering (SLS)), Application (Prototyping, Tooling, and Functional Part Manufacturing), and End-use Industry (Medical & Healthcare, Aerospace & Defense, Transportation, Oil & Gas, and Other End-use Industries), Region - Global Forecast to 2030

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Report description:

The 3D printing high-performance plastics market is projected to grow from USD 0.18 billion in 2025 to USD 0.45 billion by 2030, reflecting a compound annual growth rate (CAGR) of 20.4% over the forecast period. A major contributor to this growth is the surging demand for polyamide-based high-performance plastics, driven by their exceptional balance of mechanical, thermal, and processing properties.

Polyamides (nylons) are particularly well-suited for powder bed fusion (PBF) technologies such as Selective Laser Sintering (SLS)-one of the most widely deployed and production-efficient additive manufacturing methods for industrial-grade components. These technologies allow for the rapid, cost-effective fabrication of complex, lightweight, and mechanically robust parts with

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minimal material waste and high throughput.

In the medical and healthcare sector, polyamide-based 3D printing is increasingly utilized for surgical instruments, customized prosthetics, orthopedic implants, and anatomical models. Their biocompatibility, resistance to sterilization, and ability to be personalized for patient-specific applications make them highly valuable in clinical environments.

Additionally, the automotive and aerospace industries are adopting polyamide-based materials to meet stringent performance and efficiency goals. With a high strength-to-weight ratio, polyamides enable the production of components that contribute to fuel efficiency and reduced emissions while maintaining structural integrity and durability under demanding conditions.

This convergence of material innovation and advanced additive manufacturing is reinforcing polyamide's position as a cornerstone in the evolving high-performance 3D printing ecosystem.

"The aerospace & defense end-use industry is projected to be the second fastest-growing end-use industry during the forecast period."

The aerospace & defense end-use industry is projected to register the fastest growth rate in the 3D printing high-performance plastic market, driven by the demand for materials that deliver exceptional durability, thermal resistance, and weight efficiency. Weight reduction remains a critical priority in aerospace & defense applications, as it directly contributes to lower fuel consumption, reduced emissions, and enhanced operational efficiency.

High-performance plastics such as PEEK, PEKK, PEI, and reinforced high-performance polymers (HPPs) offer outstanding strength-to-weight ratios, enabling the replacement of traditional metal components with lighter polymer-based alternatives without compromising mechanical performance or reliability.

Additive manufacturing further amplifies these benefits by enabling the fabrication of highly complex, topology-optimized structures that are unachievable through conventional methods. Applications include internal lattice geometries, integrated cooling channels in propulsion systems, and customized cabin or mission-specific fittings. This level of design freedom facilitates part consolidation, reduces assembly complexity, and enhances overall component functionality-driving adoption across both commercial and defense aerospace sectors.

"North America is projected to register the highest growth rate in the 3D printing high-performance plastic market during the forecast period."

North America is projected to be the fastest-growing region in the 3D printing high-performance plastic market during the forecast period, driven by strong industrial adoption, technological leadership, and continuous innovation. Key sectors in the region-including aerospace & defense, automotive, and healthcare-are increasingly leveraging 3D printing for both rapid prototyping and full-scale production of high-performance plastic components.

These industries demand materials that are lightweight, thermally stable, chemically resistant, and mechanically robust, making high-performance plastics such as PEEK & PEKK, PA, and PEI highly valuable. Their ability to maintain dimensional stability and structural integrity under extreme operating conditions makes them ideal for mission-critical applications.

North American manufacturers are adopting additive manufacturing to improve design flexibility, reduce lead times, lower material waste, and enable on-demand, localized production. This supports agile manufacturing strategies and enhances supply chain resilience, positioning the region at the forefront of the global shift toward advanced, sustainable production technologies. This study has been validated through primary interviews with industry experts globally. The primary sources have been divided into the following three categories:

-□By Company Type: Tier 1 - 40%, Tier 2 - 33%, and Tier 3 - 27%

-□By Designation: C-level - 50%, Director-level - 30%, and Managers - 20%

-□By Region: North America - 15%, Europe - 50%, Asia Pacific - 20%, the Middle East & Africa - 10%, and Latin America - 5%

The report provides a comprehensive analysis of the following companies:

Prominent companies in this market include Evonik Industries (Germany), Arkema (France), Lehmann&Voss&Co. (Germany), Nano Dimensions (US), Oxford Performance Materials (US), EOS GmbH (Germany), Solvay (Belgium), SABIC (Saudi Arabia), Forward AM

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Technologies GmbH (Germany), Impossible Objects (US), and Apium Additive Technologies GmbH (Germany), Ensigner (Germany), Victrex Plc (UK), Mitsubishi Chemical Corporation (Japan), Toray Industries, Inc. (Japan), Proto Labs (US), 3DXTECH (US), 3D4Makers (Netherlands), Zortrax (Poland), Treed Filaments (Italy), Formlabs (US), Eplus3D (China), Junhua PEEK (China), Sculpteo (France), and PEEKChina (China).

Research coverage

This research report categorizes the 3D printing high-performance plastic market by Type (Polyamide (PA), Polyetherimide (PEI), Polyetheretherketone & Polyetherketoneketone (PEEK & PEKK), Reinforced HPP, Other Types), Form (Filament & Pellet and Powder), Technology (Fused Deposition Modeling (FDM)/Fused Filament Fabrication (FFF) and Selective Laser Sintering (SLS)), Application (Prototyping, Tooling, and Functional Part Manufacturing), and by End-use Industry (Medical & Healthcare, Aerospace & Defense, Transportation, Oil & Gas, and Other End-use Industries), and by Region. The scope of the report includes detailed information about the major factors influencing the growth of the 3D printing high-performance plastic market, such as drivers, restraints, challenges, and opportunities. A thorough examination of the key industry players has been conducted to provide insights into their business overview, solutions and services, key strategies, and recent developments in the 3D printing high-performance plastic market are all covered. This report includes a competitive analysis of upcoming startups in the 3D printing high-performance plastic market ecosystem.

Reasons to buy this report:

The report will help market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall 3D printing high-performance plastic market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following points:

-□Analysis of key drivers (Increasing demand for 3D printing high performance plastic from medical & healthcare, aerospace & defense, and automotive industries; development of application specific grades of 3D printing high performance plastics), restraints (environmental concerns regarding disposal of 3D printed plastic products, scepticism regarding acceptance of new technologies in emerging economies), opportunities (increasing demand for bio-based grades of 3D printing high performance plastic materials and growing penetration of reinforced 3D printing high performance plastics in manufacturing functional parts), and challenges (high manufacturing cost of commercial grades of 3D printing high performance plastics and reducing lead time) influencing the growth of the 3D printing high performance plastic market.

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and service launches in the 3D printing high-performance plastic market.

-□Market Development: Comprehensive information about lucrative markets-the report analyses the 3D printing high-performance plastic market across varied regions.

-□Market Diversification: Exhaustive information about services, untapped geographies, recent developments, and investments in the 3D printing high-performance plastic market.

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Evonik Industries (Germany), Arkema (France), Lehmann&Voss&Co. (Germany), Nano Dimensions (US), Oxford Performance Materials (US), EOS GmbH (Germany), Solvay (Belgium), SABIC (Saudi Arabia), Forward AM Technologies GmbH (Germany), Impossible Objects (US), and Apium Additive Technologies GmbH (Germany), Ensigner (Germany), Victrex Plc (UK), Mitsubishi Chemical Corporation (Japan), Toray Industries, Inc. (Japan), Proto Labs (US), 3DXTECH (US), 3D4Makers (Netherlands), Zortrax

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(Poland), Treed Filaments (Italy), Formlabs (US), Eplus3D (China), Junhua PEEK (China), Sculpteo (France), and PEEKChina (China) in the 3D printing high-performance plastic market.

Table of Contents:

1	INTRODUCTION	35
1.1	STUDY OBJECTIVES	35
1.2	MARKET DEFINITION	35
1.3	STUDY SCOPE	36
1.3.1	MARKETS COVERED AND REGIONAL SCOPE	36
1.3.2	INCLUSIONS AND EXCLUSIONS	37
1.3.3	YEARS CONSIDERED	38
1.3.4	CURRENCY CONSIDERED	38
1.3.5	UNITS CONSIDERED	38
1.4	STAKEHOLDERS	38
1.5	SUMMARY OF CHANGES	39
2	RESEARCH METHODOLOGY	40
2.1	RESEARCH DATA	40
2.1.1	SECONDARY DATA	41
2.1.1.1	Secondary sources	41
2.1.1.2	Key data from secondary sources	41
2.1.2	PRIMARY DATA	42
2.1.2.1	Key data from primary sources	42
2.1.2.2	Key primary participants	42
2.1.2.3	Breakdown of primary interviews	43
2.1.2.4	Key industry insights	43
2.2	MARKET SIZE ESTIMATION	44
2.2.1	BOTTOM-UP APPROACH	44
2.2.2	TOP-DOWN APPROACH	45
2.3	BASE NUMBER CALCULATION	45
2.3.1	APPROACH 1: SUPPLY-SIDE ANALYSIS	45
2.3.2	APPROACH 2: DEMAND-SIDE ANALYSIS	46
2.4	MARKET FORECAST APPROACH	46
2.4.1	SUPPLY SIDE	46
2.4.2	DEMAND SIDE	46
2.5	DATA TRIANGULATION	46
2.6	FACTOR ANALYSIS	48
2.7	RESEARCH ASSUMPTIONS	48
2.8	RESEARCH LIMITATIONS AND RISK ASSESSMENT	49
3	EXECUTIVE SUMMARY	50
?		
4	PREMIUM INSIGHTS	55
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET	55
4.2	3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY TYPE AND REGION	56
4.3	3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY FORM	56
4.4	3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY TECHNOLOGY	57
4.5	3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY APPLICATION	57
4.6	3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY END-USE INDUSTRY	58

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4.7	3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY COUNTRY	58
5	MARKET OVERVIEW	59
5.1	INTRODUCTION	59
5.2	MARKET DYNAMICS	60
5.2.1	DRIVERS	60
5.2.1.1	Increasing applications in medical & healthcare, aerospace & defense, and automotive industries	60
5.2.1.2	Development of application-specific grades for 3D printing high-performance plastics	61
5.2.1.3	Government initiatives to support adoption in different industries	61
5.2.1.4	Rising investments and favorable policies for sustainable solutions	62
5.2.2	RESTRAINTS	62
5.2.2.1	Environmental concerns regarding disposal of 3D-printed plastic products	62
5.2.2.2	Skepticism about acceptance of new technologies in emerging economies	63
5.2.3	OPPORTUNITIES	63
5.2.3.1	Increasing demand for bio-based grades of 3D printing high-performance plastics	63
5.2.3.2	Growing penetration of reinforced 3D printing high-performance plastics in manufacturing functional parts	63
5.2.4	CHALLENGES	64
5.2.4.1	High manufacturing cost of commercial grades of 3D printing high-performance plastics	64
5.2.4.2	Prolonged lead time	64
5.3	PORTER'S FIVE FORCES ANALYSIS	65
5.3.1	THREAT OF NEW ENTRANTS	65
5.3.2	THREAT OF SUBSTITUTES	66
5.3.3	BARGAINING POWER OF SUPPLIERS	66
5.3.4	BARGAINING POWER OF BUYERS	66
5.3.5	INTENSITY OF COMPETITIVE RIVALRY	67
5.4	KEY STAKEHOLDERS AND BUYING CRITERIA	67
5.4.1	KEY STAKEHOLDERS IN BUYING PROCESS	67
5.4.2	BUYING CRITERIA	68
	?	
5.5	MACROECONOMICS INDICATORS	69
5.5.1	INTRODUCTION	69
5.5.2	GDP TRENDS AND FORECAST	69
5.5.3	TRENDS IN MEDICAL & HEALTHCARE INDUSTRY	70
5.5.4	TRENDS IN AEROSPACE & DEFENSE INDUSTRY	71
5.6	SUPPLY CHAIN ANALYSIS	71
5.6.1	RAW MATERIAL	72
5.6.2	FINAL PRODUCT ANALYSIS	72
5.7	VALUE CHAIN ANALYSIS	73
5.8	ECOSYSTEM ANALYSIS	74
5.9	PRICING ANALYSIS	75
5.9.1	AVERAGE SELLING PRICE OF END-USE INDUSTRIES, BY KEY PLAYERS, 2024	75
5.9.2	AVERAGE SELLING PRICE TREND, BY TYPE	77
5.9.3	AVERAGE SELLING PRICE TREND, BY APPLICATION, 2022-2025	78
5.9.4	AVERAGE SELLING PRICE TREND, BY REGION	79
5.10	TRADE ANALYSIS	80
5.10.1	IMPORT SCENARIO (HS CODE 847790)	80
5.10.2	EXPORT SCENARIO (HS CODE 847790)	81
5.11	TECHNOLOGY ANALYSIS	82

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5.11.1	KEY TECHNOLOGIES	82
5.11.1.1	Fused Deposition Modeling (FDM)/Fused Filament Fabrication (FFF)	82
5.11.1.2	Selective Laser Sintering (SLS)	83
5.11.2	COMPLEMENTARY TECHNOLOGIES	84
5.11.2.1	Automated Fiber Placement	84
5.12	IMPACT OF AI/GEN AI ON 3D PRINTING HIGH PERFORMANCE PLASTIC MARKET	84
5.12.1	TOP USE CASES AND MARKET POTENTIAL	84
5.12.2	BEST PRACTICES IN 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET	85
5.12.3	CASE STUDIES OF AI IMPLEMENTATION IN 3D PRINTING HIGH PERFORMANCE PLASTIC MARKET	86
5.12.4	INTERCONNECTED ADJACENT ECOSYSTEM AND IMPACT ON MARKET PLAYERS	86
5.12.5	CLIENTS' READINESS TO ADOPT GENERATIVE AI IN 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET	86
5.13	PATENT ANALYSIS	86
5.13.1	INTRODUCTION	86
5.13.2	METHODOLOGY	86
5.13.3	PATENT TYPE	87
5.13.4	INSIGHTS	88
5.13.5	LEGAL STATUS OF PATENTS	88
5.13.6	JURISDICTION ANALYSIS	89
5.13.7	TOP APPLICANTS	89
	?	
5.13.8	LIST OF PATENTS BY FORD GLOBAL TECHNOLOGIES LLC	90
5.13.9	LIST OF PATENTS BY HEWLETT-PACKARD DEVELOPMENT COMPANY	90
5.13.10	LIST OF PATENTS BY BASF SE	91
5.14	REGULATORY LANDSCAPE	91
5.14.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	91
5.15	KEY CONFERENCES AND EVENTS, 2024-2025	94
5.16	CASE STUDY ANALYSIS	95
5.16.1	TO DEVELOP MATERIALS FOR AEROSPACE AND AUTOMOTIVE INDUSTRIES TO PRODUCE GOOD-QUALITY COMPLEX PARTS AT RAPID PACE	95
5.16.2	LOCKHEED MARTIN AND HIGH-PERFORMANCE THERMOPLASTICS	95
5.16.3	EVONIK INTRODUCED WORLD'S FIRST PA12 POWDER FOR 3D PRINTING BASED ON BIO-CIRCULAR RAW MATERIAL	96
5.17	TRENDS AND DISRUPTIONS IMPACTING CUSTOMER BUSINESS	96
5.18	INVESTMENT AND FUNDING SCENARIO	97
5.19	IMPACT OF 2025 US TARIFF - 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET	97
5.19.1	INTRODUCTION	97
5.19.2	KEY TARIFF RATES	98
5.19.3	PRICE IMPACT ANALYSIS	99
5.19.4	KEY IMPACTS ON COUNTRY/REGION	99
5.19.4.1	US	99
5.19.4.2	Europe	100
5.19.4.3	Asia Pacific	102
6	3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY TYPE	104
6.1	INTRODUCTION	105
6.2	POLYAMIDE (PA)	107
6.2.1	DURABILITY, HEAT RESISTANCE, AND RESISTANCE AGAINST CORROSION BY CHEMICALS, WATER, FUELS, AND LUBRICANTS TO DRIVE MARKET	107
6.3	POLYETHERIMIDE (PEI)	109

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6.3.1	HIGH DEMAND FROM AEROSPACE, AUTOMOTIVE, AND INDUSTRIAL SECTORS	109
6.4	POLYETHER ETHER KETONE & POLYETHER KETONE (PEEK & PEKK)	111
6.4.1	HIGH R&D INVESTMENTS TO BOOST MASS PRODUCTION	111
6.5	REINFORCED HPP	113
6.5.1	LARGE DEMAND FROM HIGH-END APPLICATIONS	113
6.5.2	REINFORCED 3D PRINTING HIGH-PERFORMANCE PLASTIC, BY RESIN TYPE	115
6.5.2.1	Thermoplastic Resins	115
6.5.2.2	Thermoset resins	117
6.5.3	REINFORCED HPP, BY FIBER TYPE	118
6.5.3.1	Carbon fiber	118
6.5.3.2	Other fiber types	119
?		
6.6	OTHER TYPES	121
6.6.1	PPSU (POLYPHENYLSULFONE)	121
6.6.2	PAI (POLYAMIDE-IMIDE)	121
6.6.3	PSU (POLYSULFONE)	121
6.6.4	PES (POLYETHER SULFONE)	121
7	3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY FORM	124
7.1	INTRODUCTION	125
7.2	FILAMENT & PELLET	126
7.2.1	MATERIALS SUCH AS PEEK & PEKK, PEI, PPSU, PES, PSU, PVDF, AND REINFORCED HPP TO DRIVE MARKET	126
7.3	POWDER	128
7.3.1	MARKET GROWTH SUPPORTED BY DEVELOPMENT OF FUSED FILAMENT FABRICATION (SLS) TECHNOLOGY	128
8	3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY TECHNOLOGY	131
8.1	INTRODUCTION	132
8.2	FUSED DEPOSITION MODELING (FDM)/FUSED FILAMENT FABRICATION (FFF)	134
8.2.1	FDM/FFF TECHNOLOGY TO PRODUCE STRONG AND DURABLE PARTS WITH COMPLEX GEOMETRIES	134
8.2.2	FDM/FFF MARKET, BY TYPE	136
8.2.3	FDM/FFF TECHNOLOGY, BY APPLICATION	137
8.2.4	FDM/FFF TECHNOLOGY, BY END-USE INDUSTRY	139
8.3	SELECTIVE LASER SINTERING (SLS)	141
8.3.1	PRODUCTION OF PARTS WITH COMPLEX GEOMETRIES AND GOOD MECHANICAL PROPERTIES	141
9	3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY APPLICATION	143
9.1	INTRODUCTION	144
9.2	PROTOTYPING	146
9.2.1	DEVELOPS 3D MODELS AT LOW COST AND IN REDUCED TIME	146
9.3	TOOLING	148
9.3.1	MANUFACTURE OF COMPONENTS AT LOW COST WITHOUT COMPROMISING QUALITY AND FUNCTIONALITIES	148
9.4	FUNCTIONAL PART MANUFACTURING	150
9.4.1	SHIFT TOWARD BULK MANUFACTURING TO DRIVE PENETRATION OF 3D PRINTING HIGH-PERFORMANCE PLASTICS	150
10	3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY END-USE INDUSTRY	152
10.1	INTRODUCTION	153
10.2	MEDICAL & HEALTHCARE	155
10.2.1	MEDICAL DEVICES, IMPLANTS, AND BIO-PRINTING HUMAN ORGANS TO DRIVE MARKET	155
10.3	AEROSPACE & DEFENSE	156
10.3.1	REPLACEMENT OF METAL COMPONENTS TO INCREASE FUEL EFFICIENCY TO DRIVE MARKET	156

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- 10.4 TRANSPORTATION 158
- 10.4.1 PROTOTYPING AUTOMOTIVE COMPONENTS TO DRIVE MARKET 158
- 10.5 OIL & GAS 160
- 10.5.1 MANUFACTURE OF STIFF, LIGHTWEIGHT, DURABLE, AND CORROSION-RESISTANT COMPONENTS TO DRIVE MARKET 160
- 10.6 OTHER END-USE INDUSTRIES 162
- 10.6.1 ELECTRICAL & ELECTRONICS 162
- 10.6.2 CONSUMER GOODS 162
- 10.6.3 INDUSTRIAL 162
- 11 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY REGION 164
- 11.1 INTRODUCTION 165
- 11.2 NORTH AMERICA 167
- 11.2.1 NORTH AMERICA: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY TYPE 169
- 11.2.2 NORTH AMERICA: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY FORM 170
- 11.2.3 NORTH AMERICA: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY APPLICATION 172
- 11.2.4 NORTH AMERICA: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY END-USE INDUSTRY 174
- 11.2.5 NORTH AMERICA: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY COUNTRY 175
- 11.2.5.1 US 176
- 11.2.5.1.1 Medical & healthcare, aircraft, and automotive sectors to drive market 176
- 11.2.5.2 Canada 178
- 11.2.5.2.1 Medical & healthcare and aerospace & defense sectors to drive growth 178
- 11.2.5.3 Mexico 180
- 11.2.5.3.1 Rising demand from aerospace & defense sector 180
- 11.3 EUROPE 182
- 11.3.1 EUROPE: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY TYPE 184
- 11.3.2 EUROPE: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY FORM 185
- 11.3.3 EUROPE: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY APPLICATION 187
- 11.3.4 EUROPE: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY END-USE INDUSTRY 189
- 11.3.5 EUROPE: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY COUNTRY 190
- 11.3.5.1 Germany 192
- 11.3.5.1.1 Development of new technologies and materials to drive market 192
- ?
- 11.3.5.2 France 193
- 11.3.5.2.1 Aerospace & defense sector to drive market 193
- 11.3.5.3 UK 195
- 11.3.5.3.1 Promotion and adoption by government, 3D printing associations, and firms to drive market 195
- 11.3.5.4 Italy 197
- 11.3.5.4.1 Transportation and aerospace & defense sectors to drive market 197
- 11.3.5.5 Spain 198
- 11.3.5.5.1 Focus on sustainability and eco-friendly materials to drive market 198
- 11.3.5.6 Rest of Europe 200

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- 11.4 ASIA PACIFIC 202
- 11.4.1 ASIA PACIFIC: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY TYPE 204
- 11.4.2 ASIA PACIFIC: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY FORM 205
- 11.4.3 ASIA PACIFIC: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY APPLICATION 207
- 11.4.4 ASIA PACIFIC: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, END-USE INDUSTRY 209
- 11.4.5 ASIA PACIFIC: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY COUNTRY 210
- 11.4.5.1 China 211
- 11.4.5.1.1 Initiatives for growth of 3D printing technology to drive market 211
- 11.4.5.2 Japan 213
- 11.4.5.2.1 Transportation and electrical & electronics sectors to generate significant demand 213
- 11.4.5.3 South Korea 215
- 11.4.5.3.1 Diversified industrial base, leading position in high-end electronics, and high public and private R&D spending to drive market 215
- 11.4.5.4 India 216
- 11.4.5.4.1 Expanding industrial adoption to drive market 216
- 11.4.5.5 Rest of Asia Pacific 218
- 11.5 SOUTH AMERICA 220
- 11.5.1 SOUTH AMERICA: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY TYPE 220
- 11.5.2 SOUTH AMERICA: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY FORM 221
- 11.5.3 SOUTH AMERICA: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY APPLICATION 224
- 11.5.4 SOUTH AMERICA: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY END-USE INDUSTRY 225
- 11.5.5 SOUTH AMERICA: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY COUNTRY 226
- ?
- 11.5.5.1 Brazil 228
- 11.5.5.1.1 Booming aerospace sector to drive market 228
- 11.5.5.2 Argentina 229
- 11.5.5.2.1 Demand from aerospace & defense sector to drive market 229
- 11.5.6 REST OF SOUTH AMERICA 231
- 11.6 MIDDLE EAST & AFRICA 233
- 11.6.1 MIDDLE EAST & AFRICA: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY TYPE 233
- 11.6.2 MIDDLE EAST & AFRICA: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY FORM 234
- 11.6.3 MIDDLE EAST & AFRICA: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY APPLICATION 237
- 11.6.4 MIDDLE EAST & AFRICA: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY END-USE INDUSTRY 238
- 11.6.5 MIDDLE EAST & AFRICA: 3D PRINTING HIGH-PERFORMANCE PLASTIC MARKET, BY COUNTRY 239
- 11.6.5.1 Israel 241
- 11.6.5.1.1 World-class academic research and public investments in R&D to drive market 241
- 11.6.5.2 South Africa 242
- 11.6.5.2.1 Government investments to promote 3D printing technology in various industries to drive market 242

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- 11.6.5.3 GCC Countries 244
 - 11.6.5.3.1 UAE 244
 - 11.6.5.3.1.1 Government investments for growth of 3D printing technology to drive market 244
 - 11.6.5.3.2 Rest of GCC Countries 246
 - 11.6.5.3.2.1 Thriving oil & gas sector to drive market 246
 - 11.6.5.4 Rest of Middle East & Africa 248
- 12 COMPETITIVE LANDSCAPE 250
 - 12.1 OVERVIEW 250
 - 12.2 KEY PLAYER STRATEGIES/RIGHT TO WIN, 2019-2025 250
 - 12.3 REVENUE ANALYSIS, 2020-2024 252
 - 12.4 MARKET SHARE ANALYSIS, 2024 253
 - 12.5 BRAND COMPARISON 255
 - 12.5.1 INFINAM (EVONIK INDUSTRIES) 256
 - 12.5.2 KEPSTAN (ARKEMA) 256
 - 12.5.3 KETASPIRE (SOLVAY) 256
 - 12.5.4 HT-23 (EOS GMBH) 256
 - 12.6 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024 256
 - 12.6.1 STARS 256
 - 12.6.2 EMERGING LEADERS 256
 - 12.6.3 PERVASIVE PLAYERS 256
 - 12.6.4 PARTICIPANTS 257
 - 12.6.5 COMPANY FOOTPRINT: KEY PLAYERS, 2024 258
 - 12.6.5.1 Company footprint 258
 - 12.6.5.2 Region footprint 259
 - 12.6.5.3 Type footprint 260
 - 12.6.5.4 Form footprint 261
 - 12.6.5.5 Technology footprint 262
 - 12.6.5.6 Application footprint 263
 - 12.6.5.7 End-use industry footprint 264
 - 12.7 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024 264
 - 12.7.1 PROGRESSIVE COMPANIES 264
 - 12.7.2 RESPONSIVE COMPANIES 265
 - 12.7.3 DYNAMIC COMPANIES 265
 - 12.7.4 STARTING BLOCKS 265
 - 12.7.5 COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2024 266
 - 12.7.5.1 Detailed list of key startups/SMEs 266
 - 12.7.5.2 Competitive benchmarking of key startups/SMEs 267
 - 12.7.5.3 Competitive benchmarking of key startups/SMEs 268
 - 12.8 COMPANY VALUATION AND FINANCIAL METRICS 268
 - 12.9 COMPETITIVE SCENARIOS 269
 - 12.9.1 PRODUCT LAUNCHES 269
 - 12.9.2 DEALS 270
 - 12.9.3 EXPANSIONS 274
- 13 COMPANY PROFILES 276
 - 13.1 KEY PLAYERS 276
 - 13.1.1 EVONIK INDUSTRIES 276
 - 13.1.1.1 Business overview 276

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- 13.1.1.2 Products offered 277
- 13.1.1.3 Recent developments 278
 - 13.1.1.3.1 Product launches 278
 - 13.1.1.3.2 Deals 278
 - 13.1.1.4 MnM view 279
 - 13.1.1.4.1 Key strengths 279
 - 13.1.1.4.2 Strategic choices 279
 - 13.1.1.4.3 Weaknesses and competitive threats 279
- 13.1.2 ARKEMA 280
 - 13.1.2.1 Business overview 280
 - 13.1.2.2 Products offered 281
 - 13.1.2.3 Recent developments 281
 - 13.1.2.3.1 Deals 281
 - 13.1.2.3.2 Expansions 282
 - ?
 - 13.1.2.4 MnM view 282
 - 13.1.2.4.1 Key strengths 282
 - 13.1.2.4.2 Strategic choices 283
 - 13.1.2.4.3 Weaknesses and competitive threats 283
- 13.1.3 LEHMANN&VOSS&CO. 284
 - 13.1.3.1 Business overview 284
 - 13.1.3.2 Products offered 284
 - 13.1.3.3 Recent developments 285
 - 13.1.3.3.1 Deals 285
 - 13.1.3.4 MnM view 285
 - 13.1.3.4.1 Key strengths 285
 - 13.1.3.4.2 Strategic choices 285
 - 13.1.3.4.3 Weaknesses and competitive threats 285
- 13.1.4 NANO DIMENSIONS (MARKFORGED) 286
 - 13.1.4.1 Business overview 286
 - 13.1.4.2 Products offered 287
 - 13.1.4.3 Recent developments 287
 - 13.1.4.3.1 Product launches 287
 - 13.1.4.3.2 Deals 288
 - 13.1.4.3.3 Expansions 288
 - 13.1.4.4 MnM view 288
 - 13.1.4.4.1 Key strengths 288
 - 13.1.4.4.2 Strategic choices 288
 - 13.1.4.4.3 Weaknesses and competitive threats 288
- 13.1.5 OXFORD PERFORMANCE MATERIALS 289
 - 13.1.5.1 Business overview 289
 - 13.1.5.2 Products offered 289
 - 13.1.5.3 Recent developments 289
 - 13.1.5.3.1 Deals 289
 - 13.1.5.4 MnM view 290
 - 13.1.5.4.1 Key strengths 290
 - 13.1.5.4.2 Strategic choices 290

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13.1.5.4.3	Weaknesses and competitive threats	290
13.1.6	EOS GMBH	291
13.1.6.1	Business overview	291
13.1.6.2	Products offered	291
13.1.6.3	Recent developments	292
13.1.6.3.1	Deals	292
13.1.6.3.2	Expansions	293
?		
13.1.6.4	MnM view	293
13.1.6.4.1	Key strengths	293
13.1.6.4.2	Strategic choices	293
13.1.6.4.3	Weaknesses and competitive threats	293
13.1.7	SOLVAY	294
13.1.7.1	Business overview	294
13.1.7.2	Products offered	295
13.1.7.3	Recent developments	296
13.1.7.3.1	Product launches	296
13.1.7.3.2	Deals	296
13.1.7.4	MnM view	297
13.1.7.4.1	Key strengths	297
13.1.7.4.2	Strategic choices	297
13.1.7.4.3	Weaknesses and competitive threats	297
13.1.8	SABIC	298
13.1.8.1	Business overview	298
13.1.8.2	Products offered	299
13.1.8.3	Recent developments	300
13.1.8.3.1	Product launches	300
13.1.8.3.2	Deals	300
13.1.8.4	MnM view	301
13.1.8.4.1	Key strengths	301
13.1.8.4.2	Strategic choices	301
13.1.8.4.3	Weaknesses and competitive threats	301
13.1.9	FORWARD AM TECHNOLOGIES GMBH	302
13.1.9.1	Business overview	302
13.1.9.2	Products offered	302
13.1.9.3	Recent developments	303
13.1.9.3.1	Deals	303
13.1.9.3.2	Expansions	303
13.1.9.4	MnM view	303
13.1.9.4.1	Key strengths	303
13.1.9.4.2	Strategic choices	304
13.1.9.4.3	Weaknesses and competitive threats	304
13.1.10	IMPOSSIBLE OBJECTS	305
13.1.10.1	Business overview	305
13.1.10.2	Products offered	305
13.1.10.3	Recent developments	306
13.1.10.3.1	Product launches	306

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13.1.10.3.2	Deals	306
	?	
13.1.10.4	MnM view	306
13.1.10.4.1	Key strengths	306
13.1.10.4.2	Strategic choices	307
13.1.10.4.3	Weaknesses and competitive threats	307
13.1.11	APIUM ADDITIVE TECHNOLOGIES GMBH	308
13.1.11.1	Business overview	308
13.1.11.2	Products offered	308
13.1.11.3	MnM view	309
13.1.11.3.1	Key strengths	309
13.1.11.3.2	Strategic choices	309
13.1.11.3.3	Weaknesses and competitive threats	309
13.1.12	ENSINGER	310
13.1.12.1	Business overview	310
13.1.12.2	Products offered	310
13.1.12.3	Recent developments	311
13.1.12.3.1	Product launches	311
13.1.12.3.2	Deals	312
13.1.12.3.3	Expansions	312
13.1.12.4	MnM view	312
13.1.12.4.1	Key strengths	312
13.1.12.4.2	Strategic choices	312
13.1.12.4.3	Weaknesses and competitive threats	312
13.1.13	VICTREX PLC	313
13.1.13.1	Business overview	313
13.1.13.2	Products offered	314
13.1.13.3	Recent developments	314
13.1.13.3.1	Product launches	314
13.1.13.3.2	Deals	314
13.1.13.3.3	Expansions	314
13.1.14	MITSUBISHI CHEMICAL CORPORATION	315
13.1.14.1	Business overview	315
13.1.14.2	Products offered	316
13.1.14.3	MnM view	316
13.1.14.3.1	Key strengths	316
13.1.14.3.2	Strategic choices	316
13.1.14.3.3	Weaknesses and competitive threats	316
13.1.15	TORAY INDUSTRIES, INC.	317
13.1.15.1	Business overview	317
13.1.15.2	Products offered	318
	?	
13.1.15.3	MnM view	318
13.1.15.3.1	Key strengths	318
13.1.15.3.2	Strategic choices	318
13.1.15.3.3	Weaknesses and competitive threats	318
13.2	OTHER PLAYERS	319

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- 13.2.1 PROTO LABS 319
- 13.2.2 3DXTECH 320
- 13.2.3 3D4MAKERS.COM 321
- 13.2.4 ZORTRAX 322
- 13.2.5 TREED FILAMENTS 323
- 13.2.6 FORMLABS 324
- 13.2.7 EPLUS3D 324
- 13.2.8 JUNHUA PEEK 325
- 13.2.9 SCULPTEO 326
- 13.2.10 PEEKCHINA 327
- 14 APPENDIX 328
- 14.1 DISCUSSION GUIDE 328
- 14.2 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL 331
- 14.3 CUSTOMIZATION OPTIONS 333
- 14.4 RELATED REPORTS 333
- 14.5 AUTHOR DETAILS 334

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