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Global 3D Printing Elastomers Market Size Study & Forecast, by Form, Material, Technology, End-use Industry, and Regional Forecasts 2025–2035

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Abstracts

The Global 3D Printing Elastomers Market is valued at approximately USD 0.34 billion in 2024 and is poised to chart a compelling growth trajectory at a remarkable CAGR of 29.10% over the forecast period 2025–2035. As the global manufacturing paradigm pivots toward agile, low-volume, and customized production, 3D printing elastomers have emerged as a transformative enabler across multiple industries. These materials—known for their stretchability, resilience, and adaptability—are unlocking next-generation applications in automotive prototyping, wearable technologies, healthcare prosthetics, and consumer-grade robotics. Unlike traditional production approaches that often impose tooling and inventory constraints, elastomer-based additive manufacturing facilitates flexible design iterations, reduced material wastage, and accelerated time-to-market, making it increasingly indispensable to innovation pipelines.

This explosive demand has been further fueled by advancements in 3D printing hardware and software, which now support complex geometries and multi-material integrations with higher precision. Technologies such as Fused Deposition Modeling (FDM), Selective Laser Sintering (SLS), and Digital Light Processing (DLP) have expanded the capabilities of elastomer processing from basic functional parts to high-performance, production-ready components. Simultaneously, the growing material portfolio—particularly with Thermoplastic Elastomers (TPEs), Styrene Block Copolymers (SBS), and other specialty blends—continues to evolve with enhanced heat resistance, tear strength, and elasticity. This technical evolution is enabling manufacturers to replace traditional rubber and silicone-based parts with lightweight, cost-efficient alternatives, reinforcing the material's appeal in end-use sectors such as automotive interiors, orthopedic implants, and flexible electronics.

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Regionally, North America remains at the forefront of the 3D printing elastomers landscape, driven by its robust R&D ecosystem, early adoption of Industry 4.0 principles, and strong presence of automotive and aerospace manufacturing clusters. The U.S., in particular, benefits from a flourishing startup culture and steady government investment into additive manufacturing technologies. Meanwhile, Europe follows closely, supported by sustainability-driven innovation and regulatory backing for lightweight, recyclable materials in the transportation and healthcare sectors. Asia Pacific is rapidly emerging as the fastest-growing region, propelled by mass customization needs, rising industrial automation, and expanding consumer electronics production in countries like China, Japan, and South Korea. This regional diversification is helping to de-risk supply chains and expand the global footprint of elastomer-based additive manufacturing.

Major market player included in this report are:

BASF SE

3M Company

Covestro AG

Dow Inc.

Arkema S.A.

Evonik Industries AG

Huntsman Corporation

SABIC

Formlabs Inc.

Carbon, Inc.

Stratasys Ltd.

DuPont de Nemours, Inc.

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HP Inc.

EOS GmbH

Lubrizol Corporation

Global 3D Printing Elastomers Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players.

The detailed segments and sub-segments of the market are explained below:

By Form:

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Powder

Filament

Liquid

By Material:

Thermoplastic Elastomer (TPE)

Styrene Butadiene Rubber (SBR) & Styrene Block Copolymers (SBS)

By Technology:

Fused Deposition Modeling (FDM)/Fused Filament Fabrication (FFF)

Stereolithography (SLA)

Selective Laser Sintering (SLS)

Digital Light Processing (DLP)

By End-use Industry:

Automotive

Consumer Goods

Aerospace & Defense

Medical & Dental

By Region:

North America

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- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- Rest of Europe

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil

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- Mexico

Middle East & Africa

- UAE
- Saudi Arabia
- South Africa
- Rest of Middle East & Africa

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2025 to 2035.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market.

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CHAPTER 10. COMPETITIVE INTELLIGENCE

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