

Global Polymer Shape Memory Materials Market Research Report 2025(Status and Outlook)

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Abstracts

Report Overview

Polymer shape memory materials (SMMs) are a class of smart materials that can "remember" their original shape and return to it when exposed to an external stimulus such as heat, light, electricity, or moisture. These materials combine the flexibility and lightweight properties of polymers with the ability to undergo reversible deformations, making them highly valuable in industries such as biomedical devices (e.g., stents, sutures), aerospace (deployable structures), automotive (self-repairing components), and consumer electronics (adaptive casings). Their market growth is driven by increasing demand for minimally invasive medical technologies, lightweight and adaptive materials in aerospace, and advancements in 4D printing, which enables precise control over shape-changing behavior. However, challenges such as high production costs, limited durability under repeated cycles, and regulatory hurdles in medical applications may restrain expansion. The market is segmented by type (thermo-responsive, photo-responsive, electro-active, etc.), application, and region, with North America and Asia-Pacific leading due to strong R&D investments and industrial adoption.

This report provides a deep insight into the global Polymer Shape Memory Materials market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business

organization. The report structure also focuses on the competitive landscape of the Global Polymer Shape Memory Materials Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Polymer Shape Memory Materials market in any manner.

Global Polymer Shape Memory Materials Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

BASF
Dynalloy
Memry Corporation
Spintech LLC
SMP Technologies
SAES Getters
Enovis
Fraunhofer IAP
Nitinol Devices & Components
ATI Wah-chang
Johnson Matthey
Fort Wayne Metals
Furukawa Electric
Nippon Seisen
Metalwerks PMD
Ultimate NiTi Technologies

Market Segmentation (by Type)

Thermoplastic

Thermosetting

Market Segmentation (by Application)

Aerospace

Automotive

Medical

Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Polymer Shape Memory Materials Market

Overview of the regional outlook of the Polymer Shape Memory Materials Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Polymer Shape Memory Materials Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Polymer Shape Memory Materials, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Polymer Shape Memory Materials
- 1.2 Key Market Segments
 - 1.2.1 Polymer Shape Memory Materials Segment by Type
 - 1.2.2 Polymer Shape Memory Materials Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 POLYMER SHAPE MEMORY MATERIALS MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Polymer Shape Memory Materials Market Size (M USD) Estimates and Forecasts (2020-2033)
 - 2.1.2 Global Polymer Shape Memory Materials Sales Estimates and Forecasts (2020-2033)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 POLYMER SHAPE MEMORY MATERIALS MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Polymer Shape Memory Materials Product Life Cycle
- 3.3 Global Polymer Shape Memory Materials Sales by Manufacturers (2020-2025)
- 3.4 Global Polymer Shape Memory Materials Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Polymer Shape Memory Materials Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Polymer Shape Memory Materials Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Polymer Shape Memory Materials Market Competitive Situation and Trends
 - 3.8.1 Polymer Shape Memory Materials Market Concentration Rate

3.8.2 Global 5 and 10 Largest Polymer Shape Memory Materials Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 POLYMER SHAPE MEMORY MATERIALS INDUSTRY CHAIN ANALYSIS

4.1 Polymer Shape Memory Materials Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF POLYMER SHAPE MEMORY MATERIALS MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Polymer Shape Memory Materials Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Polymer Shape Memory Materials Market

5.7 ESG Ratings of Leading Companies

6 POLYMER SHAPE MEMORY MATERIALS MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Polymer Shape Memory Materials Sales Market Share by Type (2020-2025)

6.3 Global Polymer Shape Memory Materials Market Size Market Share by Type

(2020-2025)

6.4 Global Polymer Shape Memory Materials Price by Type (2020-2025)

7 POLYMER SHAPE MEMORY MATERIALS MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Polymer Shape Memory Materials Market Sales by Application (2020-2025)

7.3 Global Polymer Shape Memory Materials Market Size (M USD) by Application (2020-2025)

7.4 Global Polymer Shape Memory Materials Sales Growth Rate by Application (2020-2025)

8 POLYMER SHAPE MEMORY MATERIALS MARKET SALES BY REGION

8.1 Global Polymer Shape Memory Materials Sales by Region

8.1.1 Global Polymer Shape Memory Materials Sales by Region

8.1.2 Global Polymer Shape Memory Materials Sales Market Share by Region

8.2 Global Polymer Shape Memory Materials Market Size by Region

8.2.1 Global Polymer Shape Memory Materials Market Size by Region

8.2.2 Global Polymer Shape Memory Materials Market Size Market Share by Region

8.3 North America

8.3.1 North America Polymer Shape Memory Materials Sales by Country

8.3.2 North America Polymer Shape Memory Materials Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Polymer Shape Memory Materials Sales by Country

8.4.2 Europe Polymer Shape Memory Materials Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Polymer Shape Memory Materials Sales by Region

8.5.2 Asia Pacific Polymer Shape Memory Materials Market Size by Region

8.5.3 China Market Overview

- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Polymer Shape Memory Materials Sales by Country
 - 8.6.2 South America Polymer Shape Memory Materials Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Polymer Shape Memory Materials Sales by Region
 - 8.7.2 Middle East and Africa Polymer Shape Memory Materials Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 POLYMER SHAPE MEMORY MATERIALS MARKET PRODUCTION BY REGION

- 9.1 Global Production of Polymer Shape Memory Materials by Region(2020-2025)
- 9.2 Global Polymer Shape Memory Materials Revenue Market Share by Region (2020-2025)
- 9.3 Global Polymer Shape Memory Materials Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Polymer Shape Memory Materials Production
 - 9.4.1 North America Polymer Shape Memory Materials Production Growth Rate (2020-2025)
 - 9.4.2 North America Polymer Shape Memory Materials Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Polymer Shape Memory Materials Production
 - 9.5.1 Europe Polymer Shape Memory Materials Production Growth Rate (2020-2025)
 - 9.5.2 Europe Polymer Shape Memory Materials Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Polymer Shape Memory Materials Production (2020-2025)
 - 9.6.1 Japan Polymer Shape Memory Materials Production Growth Rate (2020-2025)
 - 9.6.2 Japan Polymer Shape Memory Materials Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Polymer Shape Memory Materials Production (2020-2025)

9.7.1 China Polymer Shape Memory Materials Production Growth Rate (2020-2025)

9.7.2 China Polymer Shape Memory Materials Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 BASF

10.1.1 BASF Basic Information

10.1.2 BASF Polymer Shape Memory Materials Product Overview

10.1.3 BASF Polymer Shape Memory Materials Product Market Performance

10.1.4 BASF Business Overview

10.1.5 BASF SWOT Analysis

10.1.6 BASF Recent Developments

10.2 Dynalloy

10.2.1 Dynalloy Basic Information

10.2.2 Dynalloy Polymer Shape Memory Materials Product Overview

10.2.3 Dynalloy Polymer Shape Memory Materials Product Market Performance

10.2.4 Dynalloy Business Overview

10.2.5 Dynalloy SWOT Analysis

10.2.6 Dynalloy Recent Developments

10.3 Memry Corporation

10.3.1 Memry Corporation Basic Information

10.3.2 Memry Corporation Polymer Shape Memory Materials Product Overview

10.3.3 Memry Corporation Polymer Shape Memory Materials Product Market

Performance

10.3.4 Memry Corporation Business Overview

10.3.5 Memry Corporation SWOT Analysis

10.3.6 Memry Corporation Recent Developments

10.4 Spintech LLC

10.4.1 Spintech LLC Basic Information

10.4.2 Spintech LLC Polymer Shape Memory Materials Product Overview

10.4.3 Spintech LLC Polymer Shape Memory Materials Product Market Performance

10.4.4 Spintech LLC Business Overview

10.4.5 Spintech LLC Recent Developments

10.5 SMP Technologies

10.5.1 SMP Technologies Basic Information

10.5.2 SMP Technologies Polymer Shape Memory Materials Product Overview

10.5.3 SMP Technologies Polymer Shape Memory Materials Product Market

Performance

- 10.5.4 SMP Technologies Business Overview
- 10.5.5 SMP Technologies Recent Developments

10.6 SAES Getters

- 10.6.1 SAES Getters Basic Information
- 10.6.2 SAES Getters Polymer Shape Memory Materials Product Overview
- 10.6.3 SAES Getters Polymer Shape Memory Materials Product Market Performance
- 10.6.4 SAES Getters Business Overview
- 10.6.5 SAES Getters Recent Developments

10.7 Enovis

- 10.7.1 Enovis Basic Information
- 10.7.2 Enovis Polymer Shape Memory Materials Product Overview
- 10.7.3 Enovis Polymer Shape Memory Materials Product Market Performance
- 10.7.4 Enovis Business Overview
- 10.7.5 Enovis Recent Developments

10.8 Fraunhofer IAP

- 10.8.1 Fraunhofer IAP Basic Information
- 10.8.2 Fraunhofer IAP Polymer Shape Memory Materials Product Overview
- 10.8.3 Fraunhofer IAP Polymer Shape Memory Materials Product Market Performance
- 10.8.4 Fraunhofer IAP Business Overview
- 10.8.5 Fraunhofer IAP Recent Developments

10.9 Nitinol Devices and Components

- 10.9.1 Nitinol Devices and Components Basic Information
- 10.9.2 Nitinol Devices and Components Polymer Shape Memory Materials Product Overview
- 10.9.3 Nitinol Devices and Components Polymer Shape Memory Materials Product Market Performance
- 10.9.4 Nitinol Devices and Components Business Overview
- 10.9.5 Nitinol Devices and Components Recent Developments

10.10 ATI Wah-chang

- 10.10.1 ATI Wah-chang Basic Information
- 10.10.2 ATI Wah-chang Polymer Shape Memory Materials Product Overview
- 10.10.3 ATI Wah-chang Polymer Shape Memory Materials Product Market Performance

Performance

- 10.10.4 ATI Wah-chang Business Overview
- 10.10.5 ATI Wah-chang Recent Developments

10.11 Johnson Matthey

- 10.11.1 Johnson Matthey Basic Information
- 10.11.2 Johnson Matthey Polymer Shape Memory Materials Product Overview

10.11.3 Johnson Matthey Polymer Shape Memory Materials Product Market
Performance

10.11.4 Johnson Matthey Business Overview

10.11.5 Johnson Matthey Recent Developments

10.12 Fort Wayne Metals

10.12.1 Fort Wayne Metals Basic Information

10.12.2 Fort Wayne Metals Polymer Shape Memory Materials Product Overview

10.12.3 Fort Wayne Metals Polymer Shape Memory Materials Product Market

Performance

10.12.4 Fort Wayne Metals Business Overview

10.12.5 Fort Wayne Metals Recent Developments

10.13 Furukawa Electric

10.13.1 Furukawa Electric Basic Information

10.13.2 Furukawa Electric Polymer Shape Memory Materials Product Overview

10.13.3 Furukawa Electric Polymer Shape Memory Materials Product Market

Performance

10.13.4 Furukawa Electric Business Overview

10.13.5 Furukawa Electric Recent Developments

10.14 Nippon Seisen

10.14.1 Nippon Seisen Basic Information

10.14.2 Nippon Seisen Polymer Shape Memory Materials Product Overview

10.14.3 Nippon Seisen Polymer Shape Memory Materials Product Market

Performance

10.14.4 Nippon Seisen Business Overview

10.14.5 Nippon Seisen Recent Developments

10.15 Metalwerks PMD

10.15.1 Metalwerks PMD Basic Information

10.15.2 Metalwerks PMD Polymer Shape Memory Materials Product Overview

10.15.3 Metalwerks PMD Polymer Shape Memory Materials Product Market

Performance

10.15.4 Metalwerks PMD Business Overview

10.15.5 Metalwerks PMD Recent Developments

10.16 Ultimate NiTi Technologies

10.16.1 Ultimate NiTi Technologies Basic Information

10.16.2 Ultimate NiTi Technologies Polymer Shape Memory Materials Product
Overview

10.16.3 Ultimate NiTi Technologies Polymer Shape Memory Materials Product Market

Performance

10.16.4 Ultimate NiTi Technologies Business Overview

10.16.5 Ultimate NiTi Technologies Recent Developments

11 POLYMER SHAPE MEMORY MATERIALS MARKET FORECAST BY REGION

11.1 Global Polymer Shape Memory Materials Market Size Forecast

11.2 Global Polymer Shape Memory Materials Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Polymer Shape Memory Materials Market Size Forecast by Country

11.2.3 Asia Pacific Polymer Shape Memory Materials Market Size Forecast by Region

11.2.4 South America Polymer Shape Memory Materials Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Polymer Shape Memory Materials by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

12.1 Global Polymer Shape Memory Materials Market Forecast by Type (2026-2033)

12.1.1 Global Forecasted Sales of Polymer Shape Memory Materials by Type (2026-2033)

12.1.2 Global Polymer Shape Memory Materials Market Size Forecast by Type (2026-2033)

12.1.3 Global Forecasted Price of Polymer Shape Memory Materials by Type (2026-2033)

12.2 Global Polymer Shape Memory Materials Market Forecast by Application (2026-2033)

12.2.1 Global Polymer Shape Memory Materials Sales (K Units) Forecast by Application

12.2.2 Global Polymer Shape Memory Materials Market Size (M USD) Forecast by Application (2026-2033)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Polymer Shape Memory Materials Market Size Comparison by Region (M USD)

Table 5. Global Polymer Shape Memory Materials Sales (K Units) by Manufacturers (2020-2025)

Table 6. Global Polymer Shape Memory Materials Sales Market Share by Manufacturers (2020-2025)

Table 7. Global Polymer Shape Memory Materials Revenue (M USD) by Manufacturers (2020-2025)

Table 8. Global Polymer Shape Memory Materials Revenue Share by Manufacturers (2020-2025)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Polymer Shape Memory Materials as of 2024)

Table 10. Global Market Polymer Shape Memory Materials Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 11. Manufacturers? Manufacturing Sites, Areas Served

Table 12. Manufacturers? Product Type

Table 13. Global Polymer Shape Memory Materials Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Market Overview of Key Raw Materials

Table 16. Midstream Market Analysis

Table 17. Downstream Customer Analysis

Table 18. Key Development Trends

Table 19. Driving Factors

Table 20. Polymer Shape Memory Materials Market Challenges

Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026

Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027

Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026

Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 25. Global Polymer Shape Memory Materials Sales by Type (K Units)

Table 26. Global Polymer Shape Memory Materials Market Size by Type (M USD)

- Table 27. Global Polymer Shape Memory Materials Sales (K Units) by Type (2020-2025)
- Table 28. Global Polymer Shape Memory Materials Sales Market Share by Type (2020-2025)
- Table 29. Global Polymer Shape Memory Materials Market Size (M USD) by Type (2020-2025)
- Table 30. Global Polymer Shape Memory Materials Market Size Share by Type (2020-2025)
- Table 31. Global Polymer Shape Memory Materials Price (USD/Unit) by Type (2020-2025)
- Table 32. Global Polymer Shape Memory Materials Sales (K Units) by Application
- Table 33. Global Polymer Shape Memory Materials Market Size by Application
- Table 34. Global Polymer Shape Memory Materials Sales by Application (2020-2025) & (K Units)
- Table 35. Global Polymer Shape Memory Materials Sales Market Share by Application (2020-2025)
- Table 36. Global Polymer Shape Memory Materials Market Size by Application (2020-2025) & (M USD)
- Table 37. Global Polymer Shape Memory Materials Market Share by Application (2020-2025)
- Table 38. Global Polymer Shape Memory Materials Sales Growth Rate by Application (2020-2025)
- Table 39. Global Polymer Shape Memory Materials Sales by Region (2020-2025) & (K Units)
- Table 40. Global Polymer Shape Memory Materials Sales Market Share by Region (2020-2025)
- Table 41. Global Polymer Shape Memory Materials Market Size by Region (2020-2025) & (M USD)
- Table 42. Global Polymer Shape Memory Materials Market Size Market Share by Region (2020-2025)
- Table 43. North America Polymer Shape Memory Materials Sales by Country (2020-2025) & (K Units)
- Table 44. North America Polymer Shape Memory Materials Market Size by Country (2020-2025) & (M USD)
- Table 45. Europe Polymer Shape Memory Materials Sales by Country (2020-2025) & (K Units)
- Table 46. Europe Polymer Shape Memory Materials Market Size by Country (2020-2025) & (M USD)
- Table 47. Asia Pacific Polymer Shape Memory Materials Sales by Region (2020-2025)

& (K Units)

Table 48. Asia Pacific Polymer Shape Memory Materials Market Size by Region (2020-2025) & (M USD)

Table 49. South America Polymer Shape Memory Materials Sales by Country (2020-2025) & (K Units)

Table 50. South America Polymer Shape Memory Materials Market Size by Country (2020-2025) & (M USD)

Table 51. Middle East and Africa Polymer Shape Memory Materials Sales by Region (2020-2025) & (K Units)

Table 52. Middle East and Africa Polymer Shape Memory Materials Market Size by Region (2020-2025) & (M USD)

Table 53. Global Polymer Shape Memory Materials Production (K Units) by Region(2020-2025)

Table 54. Global Polymer Shape Memory Materials Revenue (US\$ Million) by Region (2020-2025)

Table 55. Global Polymer Shape Memory Materials Revenue Market Share by Region (2020-2025)

Table 56. Global Polymer Shape Memory Materials Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 57. North America Polymer Shape Memory Materials Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. Europe Polymer Shape Memory Materials Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Japan Polymer Shape Memory Materials Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. China Polymer Shape Memory Materials Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. BASF Basic Information

Table 62. BASF Polymer Shape Memory Materials Product Overview

Table 63. BASF Polymer Shape Memory Materials Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 64. BASF Business Overview

Table 65. BASF SWOT Analysis

Table 66. BASF Recent Developments

Table 67. Dynalloy Basic Information

Table 68. Dynalloy Polymer Shape Memory Materials Product Overview

Table 69. Dynalloy Polymer Shape Memory Materials Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 70. Dynalloy Business Overview

- Table 71. Dynalloy SWOT Analysis
- Table 72. Dynalloy Recent Developments
- Table 73. Memry Corporation Basic Information
- Table 74. Memry Corporation Polymer Shape Memory Materials Product Overview
- Table 75. Memry Corporation Polymer Shape Memory Materials Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 76. Memry Corporation Business Overview
- Table 77. Memry Corporation SWOT Analysis
- Table 78. Memry Corporation Recent Developments
- Table 79. Spintech LLC Basic Information
- Table 80. Spintech LLC Polymer Shape Memory Materials Product Overview
- Table 81. Spintech LLC Polymer Shape Memory Materials Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 82. Spintech LLC Business Overview
- Table 83. Spintech LLC Recent Developments
- Table 84. SMP Technologies Basic Information
- Table 85. SMP Technologies Polymer Shape Memory Materials Product Overview
- Table 86. SMP Technologies Polymer Shape Memory Materials Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 87. SMP Technologies Business Overview
- Table 88. SMP Technologies Recent Developments
- Table 89. SAES Getters Basic Information
- Table 90. SAES Getters Polymer Shape Memory Materials Product Overview
- Table 91. SAES Getters Polymer Shape Memory Materials Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 92. SAES Getters Business Overview
- Table 93. SAES Getters Recent Developments
- Table 94. Enovis Basic Information
- Table 95. Enovis Polymer Shape Memory Materials Product Overview
- Table 96. Enovis Polymer Shape Memory Materials Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 97. Enovis Business Overview
- Table 98. Enovis Recent Developments
- Table 99. Fraunhofer IAP Basic Information
- Table 100. Fraunhofer IAP Polymer Shape Memory Materials Product Overview
- Table 101. Fraunhofer IAP Polymer Shape Memory Materials Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 102. Fraunhofer IAP Business Overview
- Table 103. Fraunhofer IAP Recent Developments

Table 104. Nitinol Devices and Components Basic Information

Table 105. Nitinol Devices and Components Polymer Shape Memory Materials Product Overview

Table 106. Nitinol Devices and Components Polymer Shape Memory Materials Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 107. Nitinol Devices and Components Business Overview

Table 108. Nitinol Devices and Components Recent Developments

Table 109. ATI Wah-chang Basic Information

Table 110. ATI Wah-chang Polymer Shape Memory Materials Product Overview

Table 111. ATI Wah-chang Polymer Shape Memory Materials Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 112. ATI Wah-chang Business Overview

Table 113. ATI Wah-chang Recent Developments

Table 114. Johnson Matthey Basic Information

Table 115. Johnson Matthey Polymer Shape Memory Materials Product Overview

Table 116. Johnson Matthey Polymer Shape Memory Materials Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 117. Johnson Matthey Business Overview

Table 118. Johnson Matthey Recent Developments

Table 119. Fort Wayne Metals Basic Information

Table 120. Fort Wayne Metals Polymer Shape Memory Materials Product Overview

Table 121. Fort Wayne Metals Polymer Shape Memory Materials Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 122. Fort Wayne Metals Business Overview

Table 123. Fort Wayne Metals Recent Developments

Table 124. Furukawa Electric Basic Information

Table 125. Furukawa Electric Polymer Shape Memory Materials Product Overview

Table 126. Furukawa Electric Polymer Shape Memory Materials Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 127. Furukawa Electric Business Overview

Table 128. Furukawa Electric Recent Developments

Table 129. Nippon Seisen Basic Information

Table 130. Nippon Seisen Polymer Shape Memory Materials Product Overview

Table 131. Nippon Seisen Polymer Shape Memory Materials Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 132. Nippon Seisen Business Overview

Table 133. Nippon Seisen Recent Developments

Table 134. Metalwerks PMD Basic Information

Table 135. Metalwerks PMD Polymer Shape Memory Materials Product Overview

Table 136. Metalwerks PMD Polymer Shape Memory Materials Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 137. Metalwerks PMD Business Overview

Table 138. Metalwerks PMD Recent Developments

Table 139. Ultimate NiTi Technologies Basic Information

Table 140. Ultimate NiTi Technologies Polymer Shape Memory Materials Product Overview

Table 141. Ultimate NiTi Technologies Polymer Shape Memory Materials Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 142. Ultimate NiTi Technologies Business Overview

Table 143. Ultimate NiTi Technologies Recent Developments

Table 144. Global Polymer Shape Memory Materials Sales Forecast by Region (2026-2033) & (K Units)

Table 145. Global Polymer Shape Memory Materials Market Size Forecast by Region (2026-2033) & (M USD)

Table 146. North America Polymer Shape Memory Materials Sales Forecast by Country (2026-2033) & (K Units)

Table 147. North America Polymer Shape Memory Materials Market Size Forecast by Country (2026-2033) & (M USD)

Table 148. Europe Polymer Shape Memory Materials Sales Forecast by Country (2026-2033) & (K Units)

Table 149. Europe Polymer Shape Memory Materials Market Size Forecast by Country (2026-2033) & (M USD)

Table 150. Asia Pacific Polymer Shape Memory Materials Sales Forecast by Region (2026-2033) & (K Units)

Table 151. Asia Pacific Polymer Shape Memory Materials Market Size Forecast by Region (2026-2033) & (M USD)

Table 152. South America Polymer Shape Memory Materials Sales Forecast by Country (2026-2033) & (K Units)

Table 153. South America Polymer Shape Memory Materials Market Size Forecast by Country (2026-2033) & (M USD)

Table 154. Middle East and Africa Polymer Shape Memory Materials Sales Forecast by Country (2026-2033) & (Units)

Table 155. Middle East and Africa Polymer Shape Memory Materials Market Size Forecast by Country (2026-2033) & (M USD)

Table 156. Global Polymer Shape Memory Materials Sales Forecast by Type (2026-2033) & (K Units)

Table 157. Global Polymer Shape Memory Materials Market Size Forecast by Type (2026-2033) & (M USD)

Table 158. Global Polymer Shape Memory Materials Price Forecast by Type (2026-2033) & (USD/Unit)

Table 159. Global Polymer Shape Memory Materials Sales (K Units) Forecast by Application (2026-2033)

Table 160. Global Polymer Shape Memory Materials Market Size Forecast by Application (2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Polymer Shape Memory Materials
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Polymer Shape Memory Materials Market Size (M USD), 2024-2033
- Figure 5. Global Polymer Shape Memory Materials Market Size (M USD) (2020-2033)
- Figure 6. Global Polymer Shape Memory Materials Sales (K Units) & (2020-2033)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Polymer Shape Memory Materials Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Polymer Shape Memory Materials Product Life Cycle
- Figure 13. Polymer Shape Memory Materials Sales Share by Manufacturers in 2024
- Figure 14. Global Polymer Shape Memory Materials Revenue Share by Manufacturers in 2024
- Figure 15. Polymer Shape Memory Materials Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Polymer Shape Memory Materials Average Price (USD/Unit) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Polymer Shape Memory Materials Revenue in 2024
- Figure 18. Industry Chain Map of Polymer Shape Memory Materials
- Figure 19. Global Polymer Shape Memory Materials Market PEST Analysis
- Figure 20. Global Polymer Shape Memory Materials Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Polymer Shape Memory Materials Market Share by Type
- Figure 27. Sales Market Share of Polymer Shape Memory Materials by Type (2020-2025)
- Figure 28. Sales Market Share of Polymer Shape Memory Materials by Type in 2024
- Figure 29. Market Size Share of Polymer Shape Memory Materials by Type

(2020-2025)

Figure 30. Market Size Share of Polymer Shape Memory Materials by Type in 2024

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Polymer Shape Memory Materials Market Share by Application

Figure 33. Global Polymer Shape Memory Materials Sales Market Share by Application (2020-2025)

Figure 34. Global Polymer Shape Memory Materials Sales Market Share by Application in 2024

Figure 35. Global Polymer Shape Memory Materials Market Share by Application (2020-2025)

Figure 36. Global Polymer Shape Memory Materials Market Share by Application in 2024

Figure 37. Global Polymer Shape Memory Materials Sales Growth Rate by Application (2020-2025)

Figure 38. Global Polymer Shape Memory Materials Sales Market Share by Region (2020-2025)

Figure 39. Global Polymer Shape Memory Materials Market Size Market Share by Region (2020-2025)

Figure 40. North America Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Polymer Shape Memory Materials Sales Market Share by Country in 2024

Figure 43. North America Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Polymer Shape Memory Materials Market Size Market Share by Country in 2024

Figure 45. U.S. Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Polymer Shape Memory Materials Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Polymer Shape Memory Materials Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Polymer Shape Memory Materials Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Polymer Shape Memory Materials Market Size (Units) and Growth

Rate (2020-2025)

Figure 51. Europe Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Polymer Shape Memory Materials Sales Market Share by Country in 2024

Figure 53. Europe Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Polymer Shape Memory Materials Market Size Market Share by Country in 2024

Figure 55. Germany Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Polymer Shape Memory Materials Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Polymer Shape Memory Materials Sales Market Share by Region in 2024

Figure 67. Asia Pacific Polymer Shape Memory Materials Market Size Market Share by Region in 2024

Figure 68. China Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Polymer Shape Memory Materials Sales and Growth Rate (K Units)

Figure 79. South America Polymer Shape Memory Materials Sales Market Share by Country in 2024

Figure 80. South America Polymer Shape Memory Materials Market Size and Growth Rate (M USD)

Figure 81. South America Polymer Shape Memory Materials Market Size Market Share by Country in 2024

Figure 82. Brazil Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Polymer Shape Memory Materials Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Polymer Shape Memory Materials Sales Market

Share by Region in 2024

Figure 90. Middle East and Africa Polymer Shape Memory Materials Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Polymer Shape Memory Materials Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Polymer Shape Memory Materials Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Polymer Shape Memory Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Polymer Shape Memory Materials Production Market Share by Region (2020-2025)

Figure 103. North America Polymer Shape Memory Materials Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Polymer Shape Memory Materials Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Polymer Shape Memory Materials Production (K Units) Growth Rate (2020-2025)

Figure 106. China Polymer Shape Memory Materials Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Polymer Shape Memory Materials Sales Forecast by Volume (2020-2033) & (K Units)

Figure 108. Global Polymer Shape Memory Materials Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Polymer Shape Memory Materials Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global Polymer Shape Memory Materials Market Share Forecast by Type (2026-2033)

Figure 111. Global Polymer Shape Memory Materials Sales Forecast by Application (2026-2033)

Figure 112. Global Polymer Shape Memory Materials Market Share Forecast by Application (2026-2033)

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