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Global Temperature-Responsive Polymer Market Growth 2026-2032

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Abstracts

The global Temperature-Responsive Polymer market size is predicted to grow from US$ 990 million in 2025 to US$ 1976 million in 2032; it is expected to grow at a CAGR of 10.6% from 2026 to 2032.

Temperature-responsive polymers (TRPs) are smart macromolecules whose physical properties—typically solubility, swelling, viscosity, or phase state—change sharply at a specific transition temperature such as the lower critical solution temperature (LCST) or upper critical solution temperature (UCST). Below or above this threshold, the polymer network expands or collapses, enabling controlled drug release, selective binding, thermal switching, or reversible gelation. The supply chain for TRPs begins with monomer production (e.g., N-isopropylacrylamide, poly(ethylene glycol), poly(N-vinylcaprolactam), and specialized acrylates), followed by polymerization and functional modification by specialty chemical makers; these materials then move to formulation companies that blend TRPs into hydrogels, coatings, carriers, and biomedical scaffolds. Downstream, medical device manufacturers, pharmaceutical companies, diagnostics firms, and advanced materials suppliers integrate the polymers into drug delivery platforms, tissue engineering matrices, stimuli-responsive coatings, microfluidic devices, and temperature-controlled filtration or sensing systems before final distribution to healthcare, biotech, and industrial end users. In 2024, global temperature-responsive polymer output reached roughly 72,000 tons against an installed capacity of about 88,000 tons annually, with unit prices ranging from USD 12,000 to 26,000 per ton and an average gross margin of 34%.

United States market for Temperature-Responsive Polymer is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

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China market for Temperature-Responsive Polymer is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Temperature-Responsive Polymer is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Temperature-Responsive Polymer players cover BASF (Germany), Evonik (Germany), Lubrizol (USA), Solvay (Belgium), Arkema Group (France), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Temperature-Responsive Polymer Industry Forecast” looks at past sales and reviews total world Temperature-Responsive Polymer sales in 2025, providing a comprehensive analysis by region and market sector of projected Temperature-Responsive Polymer sales for 2026 through 2032. With Temperature-Responsive Polymer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Temperature-Responsive Polymer industry.

This Insight Report provides a comprehensive analysis of the global Temperature-Responsive Polymer landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Temperature-Responsive Polymer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Temperature-Responsive Polymer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Temperature-Responsive Polymer and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Temperature-Responsive Polymer.

This report presents a comprehensive overview, market shares, and growth

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opportunities of Temperature-Responsive Polymer market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Acrylamide-based TRPs

Vinyl-based TRPs

Poly(ethylene glycol)-based TRPs

Polypeptide-based TRPs

Polyester-based TRPs

Segmentation by Transition Mechanism:

Lower Critical Solution Temperature

Upper Critical Solution Temperature

Segmentation by Application:

Healthcare

Cosmetic

Food & Beverage

Water Treatment

Others

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This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa

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Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

BASF (Germany)

Evonik (Germany)

Lubrizol (USA)

Solvay (Belgium)

Arkema Group (France)

DuPont (USA)

Nouryon (Netherlands)

SMP Technologies (Japan)

Dow Chemical (USA)

Covestro (Germany)

3M Company (USA)

Ashland (USA)

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Braskem (Brazil)

Hexion (USA)

Huntsman (USA)

Avient (USA)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Temperature-Responsive Polymer market?

What factors are driving Temperature-Responsive Polymer market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Temperature-Responsive Polymer market opportunities vary by end market size?

How does Temperature-Responsive Polymer break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Temperature-Responsive Polymer Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Temperature-Responsive Polymer by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Temperature-Responsive Polymer by Country/Region, 2021, 2025 & 2032
2.2 Temperature-Responsive Polymer Segment by Type
  2.2.1 Acrylamide-based TRPs
  2.2.2 Vinyl-based TRPs
  2.2.3 Poly(ethylene glycol)-based TRPs
  2.2.4 Polypeptide-based TRPs
  2.2.5 Polyester-based TRPs
  2.2.6 Temperature-Responsive Polymer Sales by Type
    2.2.6.1 Global Temperature-Responsive Polymer Sales Market Share by Type (2021-2026)
    2.2.6.2 Global Temperature-Responsive Polymer Revenue and Market Share by Type (2021-2026)
    2.2.6.3 Global Temperature-Responsive Polymer Sale Price by Type (2021-2026)
2.3 Temperature-Responsive Polymer Segment by Transition Mechanism
  2.3.1 Lower Critical Solution Temperature
  2.3.2 Upper Critical Solution Temperature
  2.3.3 Temperature-Responsive Polymer Sales by Transition Mechanism
    2.3.3.1 Global Temperature-Responsive Polymer Sales Market Share by Transition Mechanism (2021-2026)

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2.3.3.2 Global Temperature-Responsive Polymer Revenue and Market Share by Transition Mechanism (2021-2026)
2.3.3.3 Global Temperature-Responsive Polymer Sale Price by Transition Mechanism (2021-2026)
2.4 Temperature-Responsive Polymer Segment by Application
2.4.1 Healthcare
2.4.2 Cosmetic
2.4.3 Food & Beverage
2.4.4 Water Treatment
2.4.5 Others
2.4.6 Temperature-Responsive Polymer Sales by Application
2.4.6.1 Global Temperature-Responsive Polymer Sale Market Share by Application (2021-2026)
2.4.6.2 Global Temperature-Responsive Polymer Revenue and Market Share by Application (2021-2026)
2.4.6.3 Global Temperature-Responsive Polymer Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Temperature-Responsive Polymer Breakdown Data by Company
3.1.1 Global Temperature-Responsive Polymer Annual Sales by Company (2021-2026)
3.1.2 Global Temperature-Responsive Polymer Sales Market Share by Company (2021-2026)
3.2 Global Temperature-Responsive Polymer Annual Revenue by Company (2021-2026)
3.2.1 Global Temperature-Responsive Polymer Revenue by Company (2021-2026)
3.2.2 Global Temperature-Responsive Polymer Revenue Market Share by Company (2021-2026)
3.3 Global Temperature-Responsive Polymer Sale Price by Company
3.4 Key Manufacturers Temperature-Responsive Polymer Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Temperature-Responsive Polymer Product Location Distribution
3.4.2 Players Temperature-Responsive Polymer Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

+357 96 030922
info@marketpublishers.com

3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR TEMPERATURE-RESPONSIVE POLYMER BY GEOGRAPHIC REGION

4.1 World Historic Temperature-Responsive Polymer Market Size by Geographic Region (2021-2026)
  4.1.1 Global Temperature-Responsive Polymer Annual Sales by Geographic Region (2021-2026)
  4.1.2 Global Temperature-Responsive Polymer Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Temperature-Responsive Polymer Market Size by Country/Region (2021-2026)
  4.2.1 Global Temperature-Responsive Polymer Annual Sales by Country/Region (2021-2026)
  4.2.2 Global Temperature-Responsive Polymer Annual Revenue by Country/Region (2021-2026)
4.3 Americas Temperature-Responsive Polymer Sales Growth
4.4 APAC Temperature-Responsive Polymer Sales Growth
4.5 Europe Temperature-Responsive Polymer Sales Growth
4.6 Middle East & Africa Temperature-Responsive Polymer Sales Growth

5 AMERICAS

5.1 Americas Temperature-Responsive Polymer Sales by Country
  5.1.1 Americas Temperature-Responsive Polymer Sales by Country (2021-2026)
  5.1.2 Americas Temperature-Responsive Polymer Revenue by Country (2021-2026)
5.2 Americas Temperature-Responsive Polymer Sales by Type (2021-2026)
5.3 Americas Temperature-Responsive Polymer Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Temperature-Responsive Polymer Sales by Region
  6.1.1 APAC Temperature-Responsive Polymer Sales by Region (2021-2026)

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6.1.2 APAC Temperature-Responsive Polymer Revenue by Region (2021-2026)
6.2 APAC Temperature-Responsive Polymer Sales by Type (2021-2026)
6.3 APAC Temperature-Responsive Polymer Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe Temperature-Responsive Polymer by Country
7.1.1 Europe Temperature-Responsive Polymer Sales by Country (2021-2026)
7.1.2 Europe Temperature-Responsive Polymer Revenue by Country (2021-2026)
7.2 Europe Temperature-Responsive Polymer Sales by Type (2021-2026)
7.3 Europe Temperature-Responsive Polymer Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Temperature-Responsive Polymer by Country
8.1.1 Middle East & Africa Temperature-Responsive Polymer Sales by Country (2021-2026)
8.1.2 Middle East & Africa Temperature-Responsive Polymer Revenue by Country (2021-2026)
8.2 Middle East & Africa Temperature-Responsive Polymer Sales by Type (2021-2026)
8.3 Middle East & Africa Temperature-Responsive Polymer Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

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info@marketpublishers.com

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Temperature-Responsive Polymer
10.3 Manufacturing Process Analysis of Temperature-Responsive Polymer
10.4 Industry Chain Structure of Temperature-Responsive Polymer

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Temperature-Responsive Polymer Distributors
11.3 Temperature-Responsive Polymer Customer

12 WORLD FORECAST REVIEW FOR TEMPERATURE-RESPONSIVE POLYMER BY GEOGRAPHIC REGION

12.1 Global Temperature-Responsive Polymer Market Size Forecast by Region
  12.1.1 Global Temperature-Responsive Polymer Forecast by Region (2027-2032)
  12.1.2 Global Temperature-Responsive Polymer Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Temperature-Responsive Polymer Forecast by Type (2027-2032)
12.7 Global Temperature-Responsive Polymer Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 BASF (Germany)

+357 96 030922
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13.1.1 BASF (Germany) Company Information
13.1.2 BASF (Germany) Temperature-Responsive Polymer Product Portfolios and Specifications
13.1.3 BASF (Germany) Temperature-Responsive Polymer Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 BASF (Germany) Main Business Overview
13.1.5 BASF (Germany) Latest Developments
13.2 Evonik (Germany)
13.2.1 Evonik (Germany) Company Information
13.2.2 Evonik (Germany) Temperature-Responsive Polymer Product Portfolios and Specifications
13.2.3 Evonik (Germany) Temperature-Responsive Polymer Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Evonik (Germany) Main Business Overview
13.2.5 Evonik (Germany) Latest Developments
13.3 Lubrizol (USA)
13.3.1 Lubrizol (USA) Company Information
13.3.2 Lubrizol (USA) Temperature-Responsive Polymer Product Portfolios and Specifications
13.3.3 Lubrizol (USA) Temperature-Responsive Polymer Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Lubrizol (USA) Main Business Overview
13.3.5 Lubrizol (USA) Latest Developments
13.4 Solvay (Belgium)
13.4.1 Solvay (Belgium) Company Information
13.4.2 Solvay (Belgium) Temperature-Responsive Polymer Product Portfolios and Specifications
13.4.3 Solvay (Belgium) Temperature-Responsive Polymer Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Solvay (Belgium) Main Business Overview
13.4.5 Solvay (Belgium) Latest Developments
13.5 Arkema Group (France)
13.5.1 Arkema Group (France) Company Information
13.5.2 Arkema Group (France) Temperature-Responsive Polymer Product Portfolios and Specifications
13.5.3 Arkema Group (France) Temperature-Responsive Polymer Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Arkema Group (France) Main Business Overview
13.5.5 Arkema Group (France) Latest Developments

+357 96 030922
info@marketpublishers.com

13.6 DuPont (USA)
13.6.1 DuPont (USA) Company Information
13.6.2 DuPont (USA) Temperature-Responsive Polymer Product Portfolios and Specifications
13.6.3 DuPont (USA) Temperature-Responsive Polymer Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 DuPont (USA) Main Business Overview
13.6.5 DuPont (USA) Latest Developments
13.7 Nouryon (Netherlands)
13.7.1 Nouryon (Netherlands) Company Information
13.7.2 Nouryon (Netherlands) Temperature-Responsive Polymer Product Portfolios and Specifications
13.7.3 Nouryon (Netherlands) Temperature-Responsive Polymer Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Nouryon (Netherlands) Main Business Overview
13.7.5 Nouryon (Netherlands) Latest Developments
13.8 SMP Technologies (Japan)
13.8.1 SMP Technologies (Japan) Company Information
13.8.2 SMP Technologies (Japan) Temperature-Responsive Polymer Product Portfolios and Specifications
13.8.3 SMP Technologies (Japan) Temperature-Responsive Polymer Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 SMP Technologies (Japan) Main Business Overview
13.8.5 SMP Technologies (Japan) Latest Developments
13.9 Dow Chemical (USA)
13.9.1 Dow Chemical (USA) Company Information
13.9.2 Dow Chemical (USA) Temperature-Responsive Polymer Product Portfolios and Specifications
13.9.3 Dow Chemical (USA) Temperature-Responsive Polymer Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 Dow Chemical (USA) Main Business Overview
13.9.5 Dow Chemical (USA) Latest Developments
13.10 Covestro (Germany)
13.10.1 Covestro (Germany) Company Information
13.10.2 Covestro (Germany) Temperature-Responsive Polymer Product Portfolios and Specifications
13.10.3 Covestro (Germany) Temperature-Responsive Polymer Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 Covestro (Germany) Main Business Overview

+357 96 030922
info@marketpublishers.com

13.10.5 Covestro (Germany) Latest Developments
13.11 3M Company (USA)
13.11.1 3M Company (USA) Company Information
13.11.2 3M Company (USA) Temperature-Responsive Polymer Product Portfolios and Specifications
13.11.3 3M Company (USA) Temperature-Responsive Polymer Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 3M Company (USA) Main Business Overview
13.11.5 3M Company (USA) Latest Developments
13.12 Ashland (USA)
13.12.1 Ashland (USA) Company Information
13.12.2 Ashland (USA) Temperature-Responsive Polymer Product Portfolios and Specifications
13.12.3 Ashland (USA) Temperature-Responsive Polymer Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 Ashland (USA) Main Business Overview
13.12.5 Ashland (USA) Latest Developments
13.13 Braskem (Brazil)
13.13.1 Braskem (Brazil) Company Information
13.13.2 Braskem (Brazil) Temperature-Responsive Polymer Product Portfolios and Specifications
13.13.3 Braskem (Brazil) Temperature-Responsive Polymer Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 Braskem (Brazil) Main Business Overview
13.13.5 Braskem (Brazil) Latest Developments
13.14 Hexion (USA)
13.14.1 Hexion (USA) Company Information
13.14.2 Hexion (USA) Temperature-Responsive Polymer Product Portfolios and Specifications
13.14.3 Hexion (USA) Temperature-Responsive Polymer Sales, Revenue, Price and Gross Margin (2021-2026)
13.14.4 Hexion (USA) Main Business Overview
13.14.5 Hexion (USA) Latest Developments
13.15 Huntsman (USA)
13.15.1 Huntsman (USA) Company Information
13.15.2 Huntsman (USA) Temperature-Responsive Polymer Product Portfolios and Specifications
13.15.3 Huntsman (USA) Temperature-Responsive Polymer Sales, Revenue, Price and Gross Margin (2021-2026)

+357 96 030922
info@marketpublishers.com

13.15.4 Huntsman (USA) Main Business Overview
13.15.5 Huntsman (USA) Latest Developments
13.16 Avient (USA)
13.16.1 Avient (USA) Company Information
13.16.2 Avient (USA) Temperature-Responsive Polymer Product Portfolios and Specifications
13.16.3 Avient (USA) Temperature-Responsive Polymer Sales, Revenue, Price and Gross Margin (2021-2026)
13.16.4 Avient (USA) Main Business Overview
13.16.5 Avient (USA) Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Temperature-Responsive Polymer Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Temperature-Responsive Polymer Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Acrylamide-based TRPs
Table 4. Major Players of Vinyl-based TRPs
Table 5. Major Players of Poly(ethylene glycol)-based TRPs
Table 6. Major Players of Polypeptide-based TRPs
Table 7. Major Players of Polyester-based TRPs
Table 8. Global Temperature-Responsive Polymer Sales by Type (2021-2026) & (Tons)
Table 9. Global Temperature-Responsive Polymer Sales Market Share by Type (2021-2026)
Table 10. Global Temperature-Responsive Polymer Revenue by Type (2021-2026) & ($ million)
Table 11. Global Temperature-Responsive Polymer Revenue Market Share by Type (2021-2026)
Table 12. Global Temperature-Responsive Polymer Sale Price by Type (2021-2026) & (US$/Ton)
Table 13. Major Players of Lower Critical Solution Temperature
Table 14. Major Players of Upper Critical Solution Temperature
Table 15. Global Temperature-Responsive Polymer Sales by Transition Mechanism (2021-2026) & (Tons)
Table 16. Global Temperature-Responsive Polymer Sales Market Share by Transition Mechanism (2021-2026)
Table 17. Global Temperature-Responsive Polymer Revenue by Transition Mechanism (2021-2026) & ($ million)
Table 18. Global Temperature-Responsive Polymer Revenue Market Share by Transition Mechanism (2021-2026)
Table 19. Global Temperature-Responsive Polymer Sale Price by Transition Mechanism (2021-2026) & (US$/Ton)
Table 20. Global Temperature-Responsive Polymer Sale by Application (2021-2026) & (Tons)
Table 21. Global Temperature-Responsive Polymer Sale Market Share by Application (2021-2026)
Table 22. Global Temperature-Responsive Polymer Revenue by Application

+357 96 030922
info@marketpublishers.com

(2021-2026) & ($ million)
Table 23. Global Temperature-Responsive Polymer Revenue Market Share by Application (2021-2026)
Table 24. Global Temperature-Responsive Polymer Sale Price by Application (2021-2026) & (US$/Ton)
Table 25. Global Temperature-Responsive Polymer Sales by Company (2021-2026) & (Tons)
Table 26. Global Temperature-Responsive Polymer Sales Market Share by Company (2021-2026)
Table 27. Global Temperature-Responsive Polymer Revenue by Company (2021-2026) & ($ millions)
Table 28. Global Temperature-Responsive Polymer Revenue Market Share by Company (2021-2026)
Table 29. Global Temperature-Responsive Polymer Sale Price by Company (2021-2026) & (US$/Ton)
Table 30. Key Manufacturers Temperature-Responsive Polymer Producing Area Distribution and Sales Area
Table 31. Players Temperature-Responsive Polymer Products Offered
Table 32. Temperature-Responsive Polymer Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 33. New Products and Potential Entrants
Table 34. Market M&A Activity & Strategy
Table 35. Global Temperature-Responsive Polymer Sales by Geographic Region (2021-2026) & (Tons)
Table 36. Global Temperature-Responsive Polymer Sales Market Share Geographic Region (2021-2026)
Table 37. Global Temperature-Responsive Polymer Revenue by Geographic Region (2021-2026) & ($ millions)
Table 38. Global Temperature-Responsive Polymer Revenue Market Share by Geographic Region (2021-2026)
Table 39. Global Temperature-Responsive Polymer Sales by Country/Region (2021-2026) & (Tons)
Table 40. Global Temperature-Responsive Polymer Sales Market Share by Country/Region (2021-2026)
Table 41. Global Temperature-Responsive Polymer Revenue by Country/Region (2021-2026) & ($ millions)
Table 42. Global Temperature-Responsive Polymer Revenue Market Share by Country/Region (2021-2026)
Table 43. Americas Temperature-Responsive Polymer Sales by Country (2021-2026) &

+357 96 030922
info@marketpublishers.com

(Tons)
Table 44. Americas Temperature-Responsive Polymer Sales Market Share by Country (2021-2026)
Table 45. Americas Temperature-Responsive Polymer Revenue by Country (2021-2026) & ($ millions)
Table 46. Americas Temperature-Responsive Polymer Sales by Type (2021-2026) & (Tons)
Table 47. Americas Temperature-Responsive Polymer Sales by Application (2021-2026) & (Tons)
Table 48. APAC Temperature-Responsive Polymer Sales by Region (2021-2026) & (Tons)
Table 49. APAC Temperature-Responsive Polymer Sales Market Share by Region (2021-2026)
Table 50. APAC Temperature-Responsive Polymer Revenue by Region (2021-2026) & ($ millions)
Table 51. APAC Temperature-Responsive Polymer Sales by Type (2021-2026) & (Tons)
Table 52. APAC Temperature-Responsive Polymer Sales by Application (2021-2026) & (Tons)
Table 53. Europe Temperature-Responsive Polymer Sales by Country (2021-2026) & (Tons)
Table 54. Europe Temperature-Responsive Polymer Revenue by Country (2021-2026) & ($ millions)
Table 55. Europe Temperature-Responsive Polymer Sales by Type (2021-2026) & (Tons)
Table 56. Europe Temperature-Responsive Polymer Sales by Application (2021-2026) & (Tons)
Table 57. Middle East & Africa Temperature-Responsive Polymer Sales by Country (2021-2026) & (Tons)
Table 58. Middle East & Africa Temperature-Responsive Polymer Revenue Market Share by Country (2021-2026)
Table 59. Middle East & Africa Temperature-Responsive Polymer Sales by Type (2021-2026) & (Tons)
Table 60. Middle East & Africa Temperature-Responsive Polymer Sales by Application (2021-2026) & (Tons)
Table 61. Key Market Drivers & Growth Opportunities of Temperature-Responsive Polymer
Table 62. Key Market Challenges & Risks of Temperature-Responsive Polymer
Table 63. Key Industry Trends of Temperature-Responsive Polymer

+357 96 030922
info@marketpublishers.com

Table 64. Temperature-Responsive Polymer Raw Material
Table 65. Key Suppliers of Raw Materials
Table 66. Temperature-Responsive Polymer Distributors List
Table 67. Temperature-Responsive Polymer Customer List
Table 68. Global Temperature-Responsive Polymer Sales Forecast by Region (2027-2032) & (Tons)
Table 69. Global Temperature-Responsive Polymer Revenue Forecast by Region (2027-2032) & ($ millions)
Table 70. Americas Temperature-Responsive Polymer Sales Forecast by Country (2027-2032) & (Tons)
Table 71. Americas Temperature-Responsive Polymer Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 72. APAC Temperature-Responsive Polymer Sales Forecast by Region (2027-2032) & (Tons)
Table 73. APAC Temperature-Responsive Polymer Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 74. Europe Temperature-Responsive Polymer Sales Forecast by Country (2027-2032) & (Tons)
Table 75. Europe Temperature-Responsive Polymer Revenue Forecast by Country (2027-2032) & ($ millions)
Table 76. Middle East & Africa Temperature-Responsive Polymer Sales Forecast by Country (2027-2032) & (Tons)
Table 77. Middle East & Africa Temperature-Responsive Polymer Revenue Forecast by Country (2027-2032) & ($ millions)
Table 78. Global Temperature-Responsive Polymer Sales Forecast by Type (2027-2032) & (Tons)
Table 79. Global Temperature-Responsive Polymer Revenue Forecast by Type (2027-2032) & ($ millions)
Table 80. Global Temperature-Responsive Polymer Sales Forecast by Application (2027-2032) & (Tons)
Table 81. Global Temperature-Responsive Polymer Revenue Forecast by Application (2027-2032) & ($ millions)
Table 82. BASF (Germany) Basic Information, Temperature-Responsive Polymer Manufacturing Base, Sales Area and Its Competitors
Table 83. BASF (Germany) Temperature-Responsive Polymer Product Portfolios and Specifications
Table 84. BASF (Germany) Temperature-Responsive Polymer Sales (Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 85. BASF (Germany) Main Business

+357 96 030922
info@marketpublishers.com

Table 86. BASF (Germany) Latest Developments
Table 87. Evonik (Germany) Basic Information, Temperature-Responsive Polymer Manufacturing Base, Sales Area and Its Competitors
Table 88. Evonik (Germany) Temperature-Responsive Polymer Product Portfolios and Specifications
Table 89. Evonik (Germany) Temperature-Responsive Polymer Sales (Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 90. Evonik (Germany) Main Business
Table 91. Evonik (Germany) Latest Developments
Table 92. Lubrizol (USA) Basic Information, Temperature-Responsive Polymer Manufacturing Base, Sales Area and Its Competitors
Table 93. Lubrizol (USA) Temperature-Responsive Polymer Product Portfolios and Specifications
Table 94. Lubrizol (USA) Temperature-Responsive Polymer Sales (Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 95. Lubrizol (USA) Main Business
Table 96. Lubrizol (USA) Latest Developments
Table 97. Solvay (Belgium) Basic Information, Temperature-Responsive Polymer Manufacturing Base, Sales Area and Its Competitors
Table 98. Solvay (Belgium) Temperature-Responsive Polymer Product Portfolios and Specifications
Table 99. Solvay (Belgium) Temperature-Responsive Polymer Sales (Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 100. Solvay (Belgium) Main Business
Table 101. Solvay (Belgium) Latest Developments
Table 102. Arkema Group (France) Basic Information, Temperature-Responsive Polymer Manufacturing Base, Sales Area and Its Competitors
Table 103. Arkema Group (France) Temperature-Responsive Polymer Product Portfolios and Specifications
Table 104. Arkema Group (France) Temperature-Responsive Polymer Sales (Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 105. Arkema Group (France) Main Business
Table 106. Arkema Group (France) Latest Developments
Table 107. DuPont (USA) Basic Information, Temperature-Responsive Polymer Manufacturing Base, Sales Area and Its Competitors
Table 108. DuPont (USA) Temperature-Responsive Polymer Product Portfolios and Specifications
Table 109. DuPont (USA) Temperature-Responsive Polymer Sales (Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)

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Table 110. DuPont (USA) Main Business
Table 111. DuPont (USA) Latest Developments
Table 112. Nouryon (Netherlands) Basic Information, Temperature-Responsive Polymer Manufacturing Base, Sales Area and Its Competitors
Table 113. Nouryon (Netherlands) Temperature-Responsive Polymer Product Portfolios and Specifications
Table 114. Nouryon (Netherlands) Temperature-Responsive Polymer Sales (Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 115. Nouryon (Netherlands) Main Business
Table 116. Nouryon (Netherlands) Latest Developments
Table 117. SMP Technologies (Japan) Basic Information, Temperature-Responsive Polymer Manufacturing Base, Sales Area and Its Competitors
Table 118. SMP Technologies (Japan) Temperature-Responsive Polymer Product Portfolios and Specifications
Table 119. SMP Technologies (Japan) Temperature-Responsive Polymer Sales (Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 120. SMP Technologies (Japan) Main Business
Table 121. SMP Technologies (Japan) Latest Developments
Table 122. Dow Chemical (USA) Basic Information, Temperature-Responsive Polymer Manufacturing Base, Sales Area and Its Competitors
Table 123. Dow Chemical (USA) Temperature-Responsive Polymer Product Portfolios and Specifications
Table 124. Dow Chemical (USA) Temperature-Responsive Polymer Sales (Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 125. Dow Chemical (USA) Main Business
Table 126. Dow Chemical (USA) Latest Developments
Table 127. Covestro (Germany) Basic Information, Temperature-Responsive Polymer Manufacturing Base, Sales Area and Its Competitors
Table 128. Covestro (Germany) Temperature-Responsive Polymer Product Portfolios and Specifications
Table 129. Covestro (Germany) Temperature-Responsive Polymer Sales (Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 130. Covestro (Germany) Main Business
Table 131. Covestro (Germany) Latest Developments
Table 132. 3M Company (USA) Basic Information, Temperature-Responsive Polymer Manufacturing Base, Sales Area and Its Competitors
Table 133. 3M Company (USA) Temperature-Responsive Polymer Product Portfolios and Specifications
Table 134. 3M Company (USA) Temperature-Responsive Polymer Sales (Tons),

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Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 135. 3M Company (USA) Main Business
Table 136. 3M Company (USA) Latest Developments
Table 137. Ashland (USA) Basic Information, Temperature-Responsive Polymer Manufacturing Base, Sales Area and Its Competitors
Table 138. Ashland (USA) Temperature-Responsive Polymer Product Portfolios and Specifications
Table 139. Ashland (USA) Temperature-Responsive Polymer Sales (Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 140. Ashland (USA) Main Business
Table 141. Ashland (USA) Latest Developments
Table 142. Braskem (Brazil) Basic Information, Temperature-Responsive Polymer Manufacturing Base, Sales Area and Its Competitors
Table 143. Braskem (Brazil) Temperature-Responsive Polymer Product Portfolios and Specifications
Table 144. Braskem (Brazil) Temperature-Responsive Polymer Sales (Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 145. Braskem (Brazil) Main Business
Table 146. Braskem (Brazil) Latest Developments
Table 147. Hexion (USA) Basic Information, Temperature-Responsive Polymer Manufacturing Base, Sales Area and Its Competitors
Table 148. Hexion (USA) Temperature-Responsive Polymer Product Portfolios and Specifications
Table 149. Hexion (USA) Temperature-Responsive Polymer Sales (Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 150. Hexion (USA) Main Business
Table 151. Hexion (USA) Latest Developments
Table 152. Huntsman (USA) Basic Information, Temperature-Responsive Polymer Manufacturing Base, Sales Area and Its Competitors
Table 153. Huntsman (USA) Temperature-Responsive Polymer Product Portfolios and Specifications
Table 154. Huntsman (USA) Temperature-Responsive Polymer Sales (Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 155. Huntsman (USA) Main Business
Table 156. Huntsman (USA) Latest Developments
Table 157. Avient (USA) Basic Information, Temperature-Responsive Polymer Manufacturing Base, Sales Area and Its Competitors
Table 158. Avient (USA) Temperature-Responsive Polymer Product Portfolios and Specifications

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Table 159. Avient (USA) Temperature-Responsive Polymer Sales (Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 160. Avient (USA) Main Business
Table 161. Avient (USA) Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Temperature-Responsive Polymer
Figure 2. Temperature-Responsive Polymer Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Temperature-Responsive Polymer Sales Growth Rate 2021-2032 (Tons)
Figure 7. Global Temperature-Responsive Polymer Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Temperature-Responsive Polymer Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Temperature-Responsive Polymer Sales Market Share by Country/Region (2025)
Figure 10. Temperature-Responsive Polymer Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Acrylamide-based TRPs
Figure 12. Product Picture of Vinyl-based TRPs
Figure 13. Product Picture of Poly(ethylene glycol)-based TRPs
Figure 14. Product Picture of Polypeptide-based TRPs
Figure 15. Product Picture of Polyester-based TRPs
Figure 16. Global Temperature-Responsive Polymer Sales Market Share by Type in 2026
Figure 17. Global Temperature-Responsive Polymer Revenue Market Share by Type (2021-2026)
Figure 18. Product Picture of Lower Critical Solution Temperature
Figure 19. Product Picture of Upper Critical Solution Temperature
Figure 20. Global Temperature-Responsive Polymer Sales Market Share by Transition Mechanism in 2026
Figure 21. Global Temperature-Responsive Polymer Revenue Market Share by Transition Mechanism (2021-2026)
Figure 22. Temperature-Responsive Polymer Consumed in Healthcare
Figure 23. Global Temperature-Responsive Polymer Market: Healthcare (2021-2026) & (Tons)
Figure 24. Temperature-Responsive Polymer Consumed in Cosmetic
Figure 25. Global Temperature-Responsive Polymer Market: Cosmetic (2021-2026) &

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(Tons)
Figure 26. Temperature-Responsive Polymer Consumed in Food & Beverage
Figure 27. Global Temperature-Responsive Polymer Market: Food & Beverage (2021-2026) & (Tons)
Figure 28. Temperature-Responsive Polymer Consumed in Water Treatment
Figure 29. Global Temperature-Responsive Polymer Market: Water Treatment (2021-2026) & (Tons)
Figure 30. Temperature-Responsive Polymer Consumed in Others
Figure 31. Global Temperature-Responsive Polymer Market: Others (2021-2026) & (Tons)
Figure 32. Global Temperature-Responsive Polymer Sale Market Share by Application (2025)
Figure 33. Global Temperature-Responsive Polymer Revenue Market Share by Application in 2026
Figure 34. Temperature-Responsive Polymer Sales by Company in 2026 (Tons)
Figure 35. Global Temperature-Responsive Polymer Sales Market Share by Company in 2026
Figure 36. Temperature-Responsive Polymer Revenue by Company in 2026 ($ millions)
Figure 37. Global Temperature-Responsive Polymer Revenue Market Share by Company in 2026
Figure 38. Global Temperature-Responsive Polymer Sales Market Share by Geographic Region (2021-2026)
Figure 39. Global Temperature-Responsive Polymer Revenue Market Share by Geographic Region in 2026
Figure 40. Americas Temperature-Responsive Polymer Sales 2021-2026 (Tons)
Figure 41. Americas Temperature-Responsive Polymer Revenue 2021-2026 ($ millions)
Figure 42. APAC Temperature-Responsive Polymer Sales 2021-2026 (Tons)
Figure 43. APAC Temperature-Responsive Polymer Revenue 2021-2026 ($ millions)
Figure 44. Europe Temperature-Responsive Polymer Sales 2021-2026 (Tons)
Figure 45. Europe Temperature-Responsive Polymer Revenue 2021-2026 ($ millions)
Figure 46. Middle East & Africa Temperature-Responsive Polymer Sales 2021-2026 (Tons)
Figure 47. Middle East & Africa Temperature-Responsive Polymer Revenue 2021-2026 ($ millions)
Figure 48. Americas Temperature-Responsive Polymer Sales Market Share by Country in 2026
Figure 49. Americas Temperature-Responsive Polymer Revenue Market Share by Country (2021-2026)
Figure 50. Americas Temperature-Responsive Polymer Sales Market Share by Type

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(2021-2026)
Figure 51. Americas Temperature-Responsive Polymer Sales Market Share by Application (2021-2026)
Figure 52. United States Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 53. Canada Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 54. Mexico Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 55. Brazil Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 56. APAC Temperature-Responsive Polymer Sales Market Share by Region in 2026
Figure 57. APAC Temperature-Responsive Polymer Revenue Market Share by Region (2021-2026)
Figure 58. APAC Temperature-Responsive Polymer Sales Market Share by Type (2021-2026)
Figure 59. APAC Temperature-Responsive Polymer Sales Market Share by Application (2021-2026)
Figure 60. China Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 61. Japan Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 62. South Korea Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 63. Southeast Asia Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 64. India Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 65. Australia Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 66. China Taiwan Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 67. Europe Temperature-Responsive Polymer Sales Market Share by Country in 2026
Figure 68. Europe Temperature-Responsive Polymer Revenue Market Share by Country (2021-2026)
Figure 69. Europe Temperature-Responsive Polymer Sales Market Share by Type (2021-2026)

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Figure 70. Europe Temperature-Responsive Polymer Sales Market Share by Application (2021-2026)
Figure 71. Germany Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 72. France Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 73. UK Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 74. Italy Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 75. Russia Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 76. Middle East & Africa Temperature-Responsive Polymer Sales Market Share by Country (2021-2026)
Figure 77. Middle East & Africa Temperature-Responsive Polymer Sales Market Share by Type (2021-2026)
Figure 78. Middle East & Africa Temperature-Responsive Polymer Sales Market Share by Application (2021-2026)
Figure 79. Egypt Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 80. South Africa Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 81. Israel Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 82. Turkey Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 83. GCC Countries Temperature-Responsive Polymer Revenue Growth 2021-2026 ($ millions)
Figure 84. Manufacturing Cost Structure Analysis of Temperature-Responsive Polymer in 2026
Figure 85. Manufacturing Process Analysis of Temperature-Responsive Polymer
Figure 86. Industry Chain Structure of Temperature-Responsive Polymer
Figure 87. Channels of Distribution
Figure 88. Global Temperature-Responsive Polymer Sales Market Forecast by Region (2027-2032)
Figure 89. Global Temperature-Responsive Polymer Revenue Market Share Forecast by Region (2027-2032)
Figure 90. Global Temperature-Responsive Polymer Sales Market Share Forecast by Type (2027-2032)

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Figure 91. Global Temperature-Responsive Polymer Revenue Market Share Forecast by Type (2027-2032)
Figure 92. Global Temperature-Responsive Polymer Sales Market Share Forecast by Application (2027-2032)
Figure 93. Global Temperature-Responsive Polymer Revenue Market Share Forecast by Application (2027-2032)

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