

Shape Memory Polymers 2016-2025

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Abstracts

This report assesses the prospects for Shape Memory Polymers (SMPs). SMPs can be deformed, retain this deformation, but then revert to the original shape/configuration upon triggering by an external stimulus. The metallic equivalent of SMPs – Shape Memory Alloys (SMAs) have already been a success and SMPs offer significant advantages over SMAs in terms of low-weight, malleability, low cost and biocompatibility.

As a result, n-tech is publishing this report to forecast the market for SMPs over the next ten years. The report focuses on four key markets for SMPs – aerospace, automotive, medicine and healthcare and construction – as well niche markets for SMPs in areas such as robotics, textiles and brand protections. For each of these end user markets, the report includes detailed revenue forecasts with breakouts by product types with in each of these markets.

The report also includes a technical chapter in which we discuss the different kinds of plastics that exhibit shape memory effects and discuss which applications each is suited to. There is also a ten-year forecast breaking out the market by SMP material type. This chapter also includes an assessment of manufacturing technologies for SMPs, with a discussion of scalability and cost of the processes involved.

Finally, the report contains profiles of all the leading companies active in SMP space along with a discussion of their evolving strategies. These firms include several giant multinationals showing that while SMPs may be at an early stage of both technical and market evolution, there is already potential for serious investment in this area.

n-tech believes that SMPs are on the verge of generating sufficient revenues and this report should be of interest to established firms and entrepreneurs looking for new opportunities, not to mention venture capitalists and other investors.

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ACRONYMS AND ABBREVIATIONS USED IN THIS REPORT

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