

Decomposition Of Inorganic And Organometallic Compounds

An Overview of Inorganic and Organometallic Polymers

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INTRODUCTION

The chemistry and technology of polymeric materials have had a major impact on all facets of our life and the economy of the world. Competition among nations for leadership positions in the development of materials science and technology is economically driven. In fact, it can be predicted that the countries with the most advanced and sophisticated materials technology will offer their citizens the highest standards of living and the greatest hope for national security in the decades to come.

In spite of the importance and widespread use of organic polymers, increasing attention has been given to macromolecules that contain metals and metalloids, that is, inorganic and organometallic polymers. The reasons for the growth in these "hybrid" species are linked to need. For example:

- Organic polymers are often susceptible to reaction with oxygen and ozone. The presence of metals or metalloids reduces that propensity.
- Organic polymers thermally decompose to volatile materials that burn; the presence of inorganics increases thermal stability, reduces inflammability of the volatiles, or increases nonvolatile residues.
- Organic polymers degrade when exposed to ultraviolet and higher energy radiation; inorganics are less susceptible to radiative degradation.
- Organic polymers are somewhat more soluble or swellable in solvents.
- Inorganics generally form stronger bonds and offer greater resistance to free radical cleavage reactions than carbon compounds.
- Longer bond lengths and higher valencies give rise to greater torsional mobility and thus greater flexibility and other dynamic-mechanical properties.

MAJOR CLASSIFICATIONS OF INORGANIC AND ORGANOMETALLIC POLYMERS

Although many elements (metals, semimetals, and nonmetals) have been incorporated in one manner or another into an inorganic and/or organometallic polymer unit, certain elements lend themselves better to products with commercial potential. Thus, for example, silicon-containing polymers are used extensively for industrial and consumer products, whereas boron-containing polymers (i.e., as prepolymer for boron nitride (BN) ceramics or as carborane-

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carbide, are. Thermal Decomposition Mechanisms of Nitroesters: Ab Initio Modeling of . Covalent Modification of Inorganic and Organometallic Compounds through C?C . Decomposition of Organometallic Compounds. Kozoh Sugiyama, Sangryul Pac inorganic compounds such as oxides has been reported. (2). Dialkylamides of .

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