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Review on Synthesis of BAMO Homopolymer and Copolymers

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Abstract: The polymers of 3, 3-diazidomethyloxetane (BAMO) are typical high-energy and high-density energetic polymers. The development of synthesizing BAMO monomer, BAMO homopolymer and copolymers was reviewed, and future study about them was also prospected in this paper. BAMO-AMMO and BAMO-GAP energetic thermoplastic elastomers are widely used. Cation living polymerization is major synthesizing method of BAMO polymers.

Key words: polymer chemistry; 3, 3-diazidomethyloxetane (BAMO); ring-opening polymerization; energetic polymer



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