Synthesis of poly(glycidyl methacrylate) microspheres via ring-opening polymerization in compressed liquid dimethyl ether

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In this study, spherical particles of poly(Glycidyl methacrylate) (PGMA)) were synthesized via ring-opening polymerization in compressed liquid dimethyl ether without surfactant. boron trifluoride diethyl etherate, boron trifluoride dimethyl etherate and boron trifluoride di-hydrate were used for ring-opening initiator. To study the effect of reactant concentration on the morphology, size and distribution of the polymer particle, the experiments are performed with changing the concentration of monomer, initiator. And the experiment with changing the polymerization of temperature was performed.