Living Anionic Ring-Opening Polymerization of Organic-Inorganic Diblock Copolymer

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Poly(methyl methacrylate) have been synthesized by living anionic ring-opening polymerization of 1,1-methylsiletance at -48°C in THF-hexane solvent system and addition of methyl methacrylate monomer. The characterization of diblock copolymer are simultaneously investigated by GPC, DSC, IR, ¹H, ¹³C and ²⁹Si NMR. The microphase separation in diblock copolymer is characterized by small-angle X-ray scattering (SAXS) and transmission electron microscopy (TEM). The polymer in the solution was found to have difference morphology depending on the volume fraction of the block copolymer.