

Low-Temperature Reversible Addition-Fragmentation Chain Transfer (RAFT) Polymerization of Methyl Methacrylate

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Abstract—Controlled/living radical polymerization of methyl methacrylate under the conditions of reversible addition–fragmentation chain transfer was performed. The reaction occurs at high rates, with the control over molecular-weight characteristics of poly(methyl methacrylate) preserved. The polymeric reversible chain-transfer agent exhibits high performance in polymerization of methyl methacrylate and in its block copolymerization with styrene.

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