Supporting Information

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A more complete polymerization procedure is provided here. Grubbs' catalyst (1.8 mg), **2** (60.2 mg), and a small stir bar were added to a round bottom flask and purged with N_2 for five minutes before addition of ethyl acetate (1 mL). The reaction was sealed and stirred for one week at room temperature. In a separate container, a mixture of ethyl acetate (2 mL), BHT (100 mg), and ethyl vinyl ether (400 μl) was prepared. After opening the reaction flask, a small aliquot (75 μl) of the BHT solution was added and the reaction was re-sealed and stirred for a further 2 hours at room temperature. Meanwhile, 10 mL of methanol with trace amounts of BHT was prepared by stirring. After 2 hours, the reaction was diluted with 2 mL of ethyl acetate and rotary-evaporated to dryness. The remaining residue was dissolved in a minimum volume of ethyl acetate then added to the stirred methanol solution, giving an off-white precipitate. Methanol was then decanted from the precipitated polymer, and the flask was rotary-evaporated to remove any additional methanol. ^{1}H NMR ($CDCl_3$, δ/ppm): 5.86, 5.57, 5.03, 4.66, 3.65, 3.06.