

Support Information

Surfactant-free Emulsion RAFT Polymerization of Methyl Methacrylate in a Continuous Tubular Reactor

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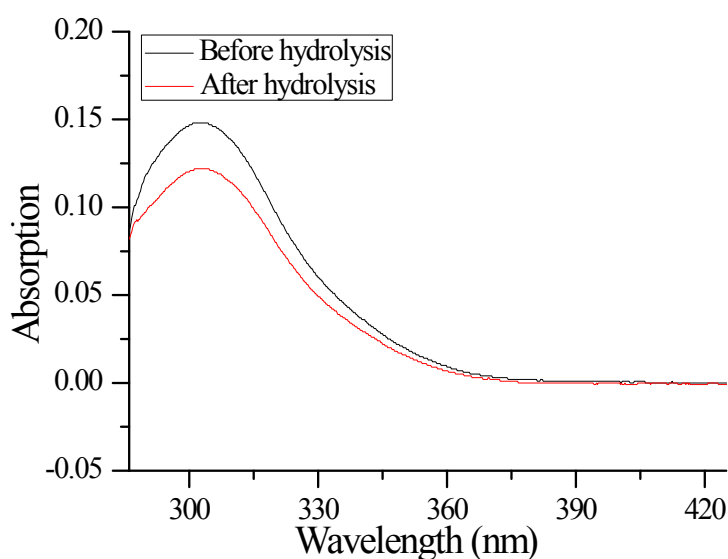


Figure S1. UV-vis spectra of RAFT agent CTBCOOH before and after hydrolysis. Max Absorption of CTBCOOH in THF is at 310 nm. Reaction conditions: $[MMA]_0/[CTBCOOH]_0/[NaOH]_0 = 200/1/1$, $V_{MMA}/V_{water}/V_{DMF} = 1/4/5$, $V_{MMA} = 0.5$ mL, temperature = 90 °C, $t = 50$ min. 20.0 μ L of the solution 10 diluted into 10 mL THF for testing. Hydrolysis percent = $(1 - A_{after}/A_{before}) \times 100\% = (1 - 0.122/0.148) \times 100\% = 17.6\%$.

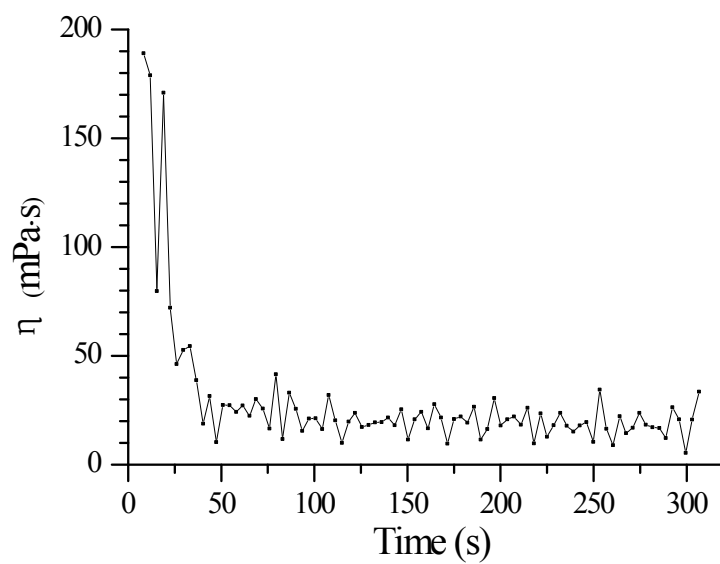


Figure S2. Viscosity (η) of the latex as a function of time at 25 °C. Sample: $M_{n, \text{GPC}} = 23600$ g/mol, $M_w/M_n = 1.05$, conversion = 89.8%; solid content was about 9 wt%.