**Supplementary Information**



Figure S1. Conversion of monomer **M1** at different AIBN concentrations. T = 60 oC; [**M1**] = 0.5 mol/L, methanol.



Figure S2. Conversion of **M1** – in the dependence of the polymerization temperature. [**M1**] = 0.5 mol/L; [AIBN] = 0.05 mol/L, MeOH.



Figure S3. **M1** initial polymerization rates in dependence on temperature in the Arrhenius plot ([AIBN] = 0.05 mol/L; [**M1**] = 0.5 mol/L; MeOH).

Figure S4. Conversion of monomer **M1** at different AIBN concentrations. T = 60 oC; [**M1**] = 0.5 mol/L, dioxane.



Figure S5. **M1** initial polymerization rates in dependence on AIBN concentration in the Arrhenius coordinates ([**M1**] = 0.5 mol/L, 60 oC, dioxane).

Figure S6. Conversion of **M1** –in the dependence of the polymerization temperature. [**M1**] = 0.5 mol/L; [AIBN] = 0.05 mol/L, dioxane.



Figure S7. **M1** initial polymerization rates in dependence on temperature in the Arrhenius plot ([AIBN] = 0.05 mol/L; [M1] = 0.5 mol/L; dioxane).



 a) b)

Figure S8. a) Monomer conversions of **M1**, MMA and total conversion during the copolymerization of mixture **M1** : MMA = 1 : 3.18; (b) comonomer ratio **M1** : MMA in feed versus time.



Figure S9 . Jaacks plot obtained from time-conversion plot in Figure S8a).