

Supporting Information to

Thermo-Induced Aggregation and Crystallization of Block Copolypeptoids in Water

Christian Secker¹, Antje Völkel¹, Brigitte Tiersch², Joachim Koetz², and Helmut Schlaad^{2*}

¹ Max Planck Institute of Colloids and Interfaces, Department of Colloid Chemistry,
Research Campus Golm, 14424 Potsdam, Germany.

² University of Potsdam, Institute of Chemistry, Karl-Liebknecht-Straße 24-25,
14476 Potsdam, Germany.

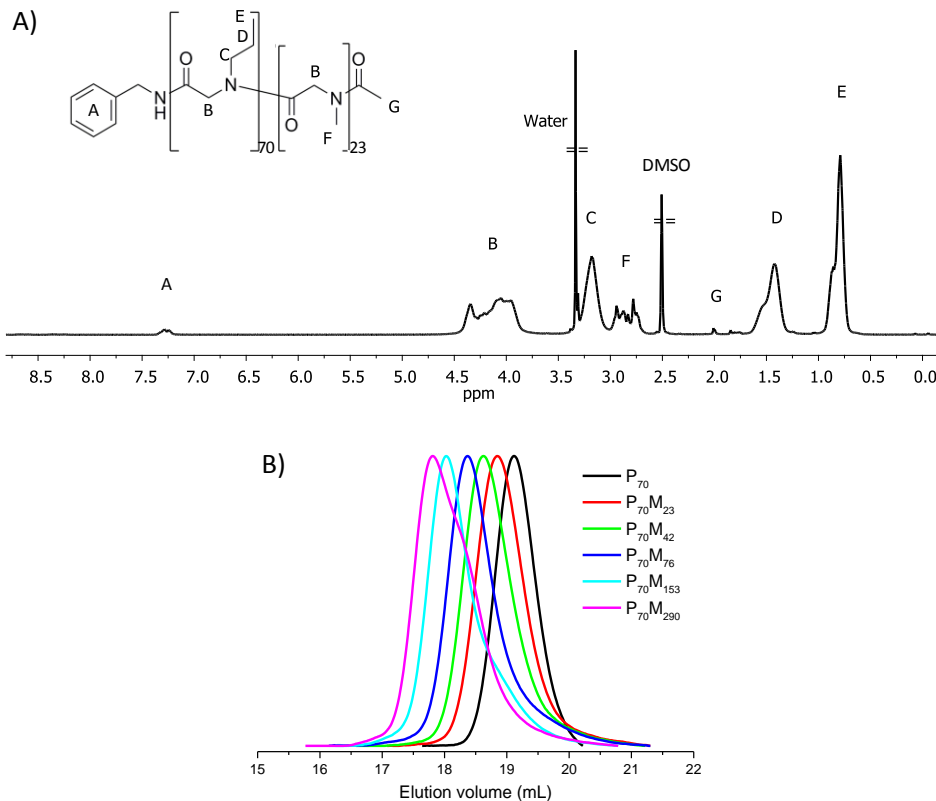


Figure S1. A) Exemplary ¹H-NMR spectrum (600 MHz) of P₇₀M₂₃ in DMSO-d₆ at room temperature. B) SEC RI traces (eluent: NMP) of the P₇₀M_m series.

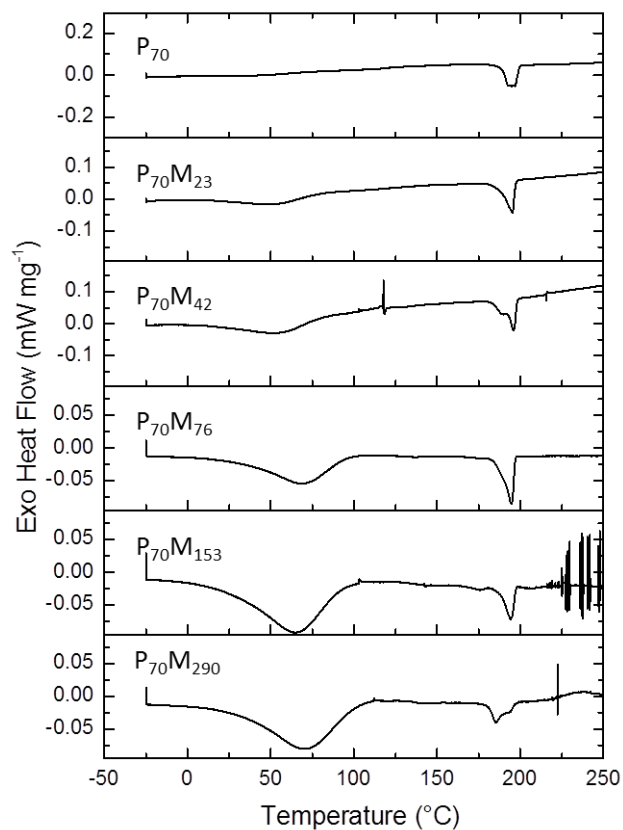


Figure S2. DSC first heating scans (heating rate: 1 K min⁻¹) of the thermally annealed (in water) and freeze-dried block copolypeptoids P₇₀M_m.

Table S1. Glass transition (T_g) and melting temperatures (T_m) of thermally annealed (in water) and freeze-dried block copolypeptoids P₇₀M_m, as determined by DSC (Figure S2).

Sample	T_g (°C)	T_m (°C)
P ₇₀	58	192, 194, 197
P ₇₀ M ₂₃	65	193, 195
P ₇₀ M ₄₂	68	187, 194
P ₇₀ M ₇₆	84	188, 194
P ₇₀ M ₁₅₃	82	194
P ₇₀ M ₂₉₀	89	185, 194

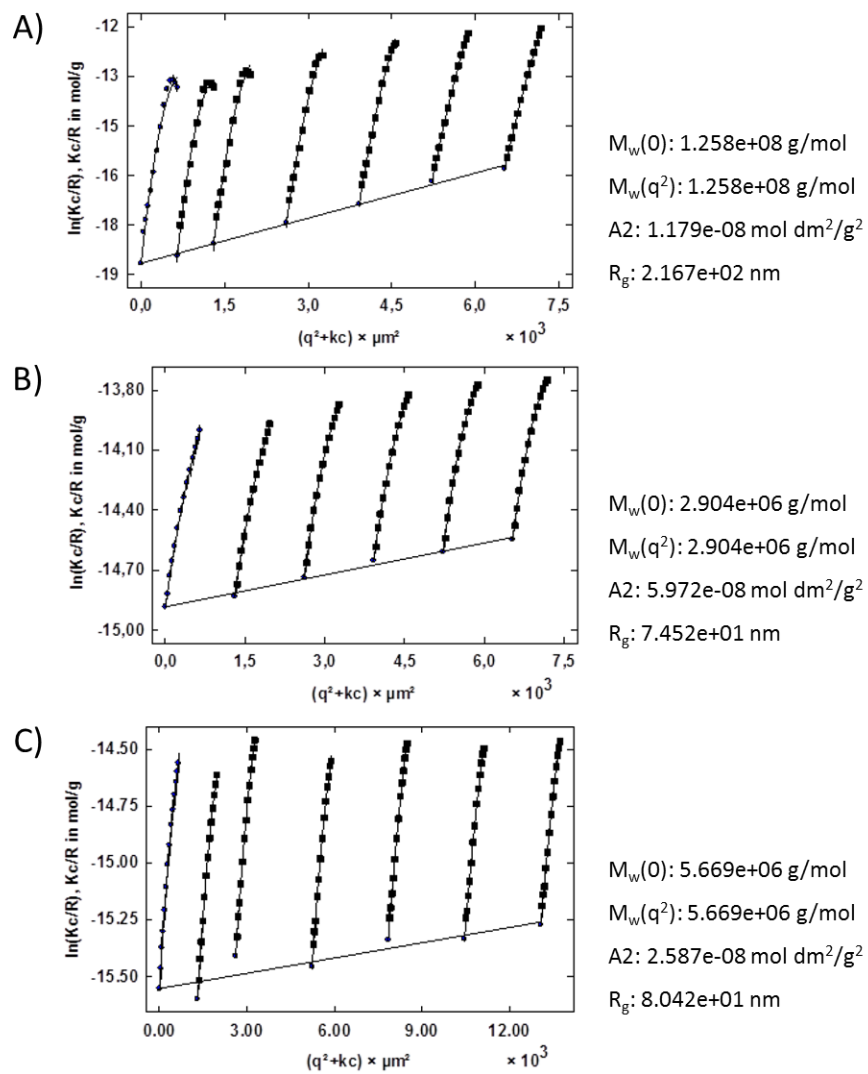


Figure S3. SLS Guinier plots for 0.01-0.1 wt % aqueous dispersions of thermally annealed block copolypeptoids A) P₇₀M₂₃, B) P₇₀M₄₂, and C) P₇₀M₇₆.