Supporting Information

Rapid Synthesis and Properties of Segmented Block Copolymers Based on Monodisperse Aromatic Poly(N-Methyl benzamide) and Poly(Propylene oxide)

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Figure S1. $^1$H NMR spectra (CDCl$_3$) of MAB$_{5.5}$ and the block copolymer poly(MAB$_{5.5}$-b-PPO$_{64}$)
Figure S2. $^1$H NMR spectra (CDCl$_3$) of rMAB$_{5-5}$ and the block copolymer poly(rMAB$_{5-5}$-b-PPO$_{64}$)
**Figure S3.** DMA analysis of poly(MAB<sub>x-y</sub>-b-PPO<sub>y</sub>) block copolymers
Figure S4. MALDI-TOF-MS spectrum of MAB$_{5-5}$
Figure S5. MALDI-TOF-MS spectrum of rMAB_{55}
**Figure S6.** MALDI-TOF-MS spectrum of MAB_{6-6}
**Figure S7.** MALDI-TOF-MS spectrum of MAB7-7
**Figure S8.** MALDI-TOF-MS spectrum of MAB₈₋₉
Figure S9. MALDI-TOF-MS spectrum of MAB$_{9-9}$.
Figure S10. MALDI-TOF-MS spectrum of MAB_{10-10}
Figure S11. AFM images of poly(MAB₅₋₅-₅-PPO₆₇) [(a) topography and (b) phase image], and poly(MAB₉₋₉-₉-PPO₆₇) [(c) topography and (d) phase image].