Supplementary information

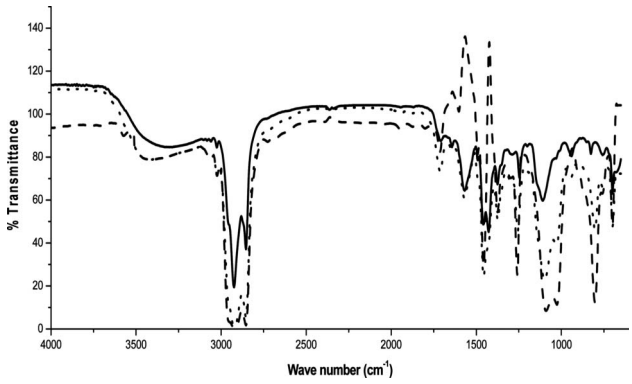

Figure S1. IR signal for (a) 0.0Si_0.38EG (——), (b) 0.22Si_0.21EG (. . . . . .) and (c) 0.39Si_0.0EG (- - -).

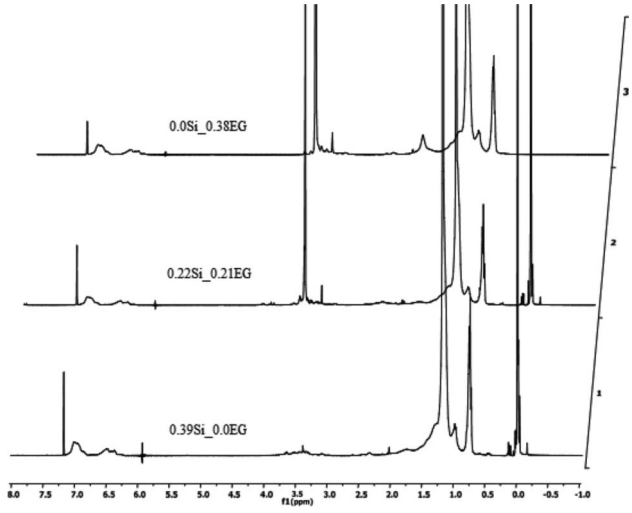

Figure S2. Overlay of ^{1}H NMR spectra of 0.38Si_0.0EG, 0.22Si_0.21EG and 0.17Si_0.31EG.

^{1}H NMR for PS_{8K}-*b*-$P(E/B)_{25K}$-*b*-PI_{10K} functionalized with PEG550 side chains (400 MHz, $CDCl_3$, δ): 6.6, 7.1, (5H, styrene), 3.6 (br s, 4H $-OCH_2CH_2O-$); 3.4 (s, 3H, $-OCH_3$); 2.2 (s, 1H, $-OH$, weak); 0.8, 1.1, 1.24, 1.8 (polymer backbone).

^{1}H NMR for PS_{8K}-*b*-$P(E/B)_{25K}$-*b*-PI_{10K} functionalized with PDMS side chains (400 MHz, $CDCl_3$, δ): 6.6, 7.1, (5H, styrene), 3.5 (br m, 4H $-OCH_2CH_2-$); 0.8, 1.0, 1.2, 1.6, 2.0 (polymer backbone); 0.0 ($-Si(CH_3)_2$; PDMS side chains).

^{1}H NMR for PS_{8K}-*b*-$P(E/B)_{25K}$-*b*-PI_{10K} functionalized with both PEG550 (50% by weight feed ratio) and PDMS side chains (50% by weight feed ratio) (400 MHz, $CDCl_3$, δ): 6.6, 7.1, (5H, styrene), 3.6 (br m, 2H $-OCH_2-$); 3.4 (s, 3H, $-OCH_3$); 0.8, 1.0, 1.2, 1.6, 2.0 (polymer backbone); 0.0 ($-Si(CH_3)_2$; PDMS side chains).

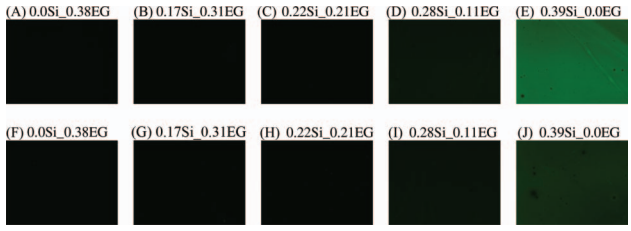

Figure S3. Fluorescence images of BSA adsorbed polymer thin films. Thin films exposed to BSA solution after annealing (A–E) and thin films exposed to BSA solution after presoaking in water (F–J).