SUPPORTING INFORMATION

Structure Formation of Metallopolymer-Grafted Block Copolymers

Christian Rüttiger, Michael Appold, Haiko Didzoleit, Adjana Eils,

Christian Dietz, Robert W. Stark, Bernd Stühn, and Markus Gallei

1Ernst-Berl-Institute for Chemical Engineering and Macromolecular Science, Technische Universität Darmstadt, Alarich-Weiss-Str. 4, D-64287 Darmstadt, Germany

2Institute of Condensed Matter Physics, Technische Universität Darmstadt, Hochschulstraße 8, D-64289 Darmstadt, Germany

3Center of Smart Interfaces, Technische Universität Darmstadt, Alarich-Weiss-Str. 16, D-64287 Darmstadt, Germany

4Physics of Surfaces, Institute of Materials Science, Technische Universität Darmstadt, Alarich-Weiss-Str. 2, D-64287 Darmstadt, Germany

Corresponding author: m.gallei@mc.tu-darmstadt.de
Figure S1. Molar mass distributions obtained by SEC measurements vs. PS standards obtained for PS$_{727}$ precursor (black line), PS$_{727}$-b-PI$_{658}$ (blue line), and for PS$_{727}$-b-(PI$_{658}$-g-PFS) (red line).

Figure S2. Molar mass distributions obtained by SEC measurements vs. PS standards obtained for PS$_{860}$ precursor (black line), PS$_{860}$-b-PI$_{782}$ (blue line), and for PS$_{860}$-b-(PI$_{782}$-g-PVFc) (red line).
Figure S3. $^1$H NMR spectrum of PS$_{727}$-b-PI$_{658}$ in CDCl$_3$ for the determination of the 1,2-PI units.

Figure S4. $^1$H NMR spectrum of PS$_{860}$-b-PI$_{782}$ in CDCl$_3$ for the determination of the 1,2-PI units.
Figure S5. $^1$H NMR spectrum of the stock solution (in THF) of hydrosilylated PS$_{727}$-$b$-PI$_{658}$ in CDCl$_3$. 
Figure S6. $^1$H NMR spectrum of the stock solution (in THF) of hydrosilylated $\text{PS}_{860}$-$b$-$\text{PI}_{782}$ in CDCl$_3$.

Figure S7. DSC thermogram of $\text{PS}_{860}$-$b$-$\text{PI}_{782}$. The applied heat rate for the DSC run was 10 K min$^{-1}$. 
Figure S8. DSC thermogram of PS$_{860}$-$b$-(PI$_{782}$-g-PVFc). The applied heat rate for the DSC run was 10 K min$^{-1}$.

Figure S9. DSC thermogram of PS$_{727}$-$b$-(PI$_{658}$-g-PFS). The applied heat rate for the DSC run was 10 K min$^{-1}$. 
Figure S10. WAXS patterns (wavelength MoK$_\alpha$=0.7093 Å) of PFS homopolymer featuring a molar mass of 1.5 kDa ($M_w$) (red curve) and for PS$_{727}$-b-(PI$_{658}$-g-PFS) (black curve). The Bragg distances (in units of Å) for the two strongest reflections are indicated in the figure for the red curve.