

Synthesis of Amphiphilic Diblock Copolymer of Isotactic Polystyrene-*block*-Isotactic Poly(*p*-hydroxystyrene) Using Titanium Complex with [OSSO]-Type Bis(phenolate) Ligand and Sequential Monomer Addition

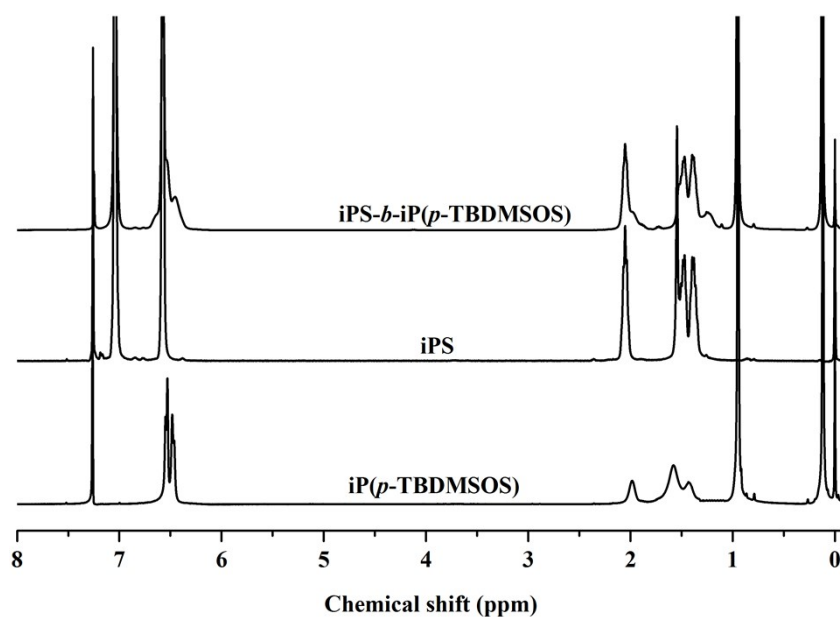


Figure S1. ¹H NMR spectra of *iPS-b-iP(p-TBDMSOS)* (Table 2, Run 2), *iPS* and *iP(p-TBDMSOS)* in CDCl₃ at 25 °C.

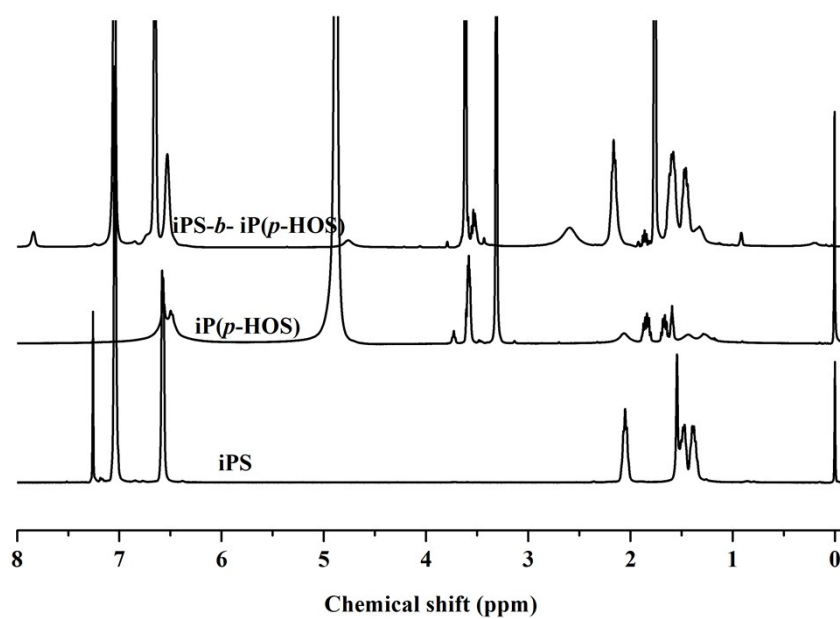


Figure S2. ^1H NMR spectra of *iPS-b-iP(p-HOS)* (Table 2, Run 2), *iPS* and *iP(p-HOS)* in $\text{THF-}d_8$, CDCl_3 and CD_3OD at $25\text{ }^\circ\text{C}$

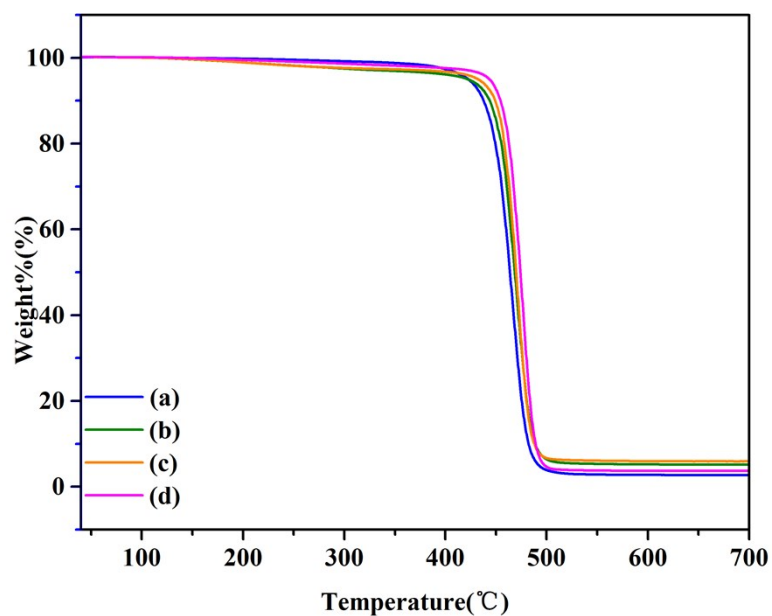


Figure S3. TGA traces (a: $M_n=3.08\text{ g mol}^{-1}$; b: $M_n=4.84\text{ g mol}^{-1}$; c: $M_n=6.43\text{ g mol}^{-1}$; d: $M_n=6.96\text{ g mol}^{-1}$) of *iP(p-TBDMSOS)*

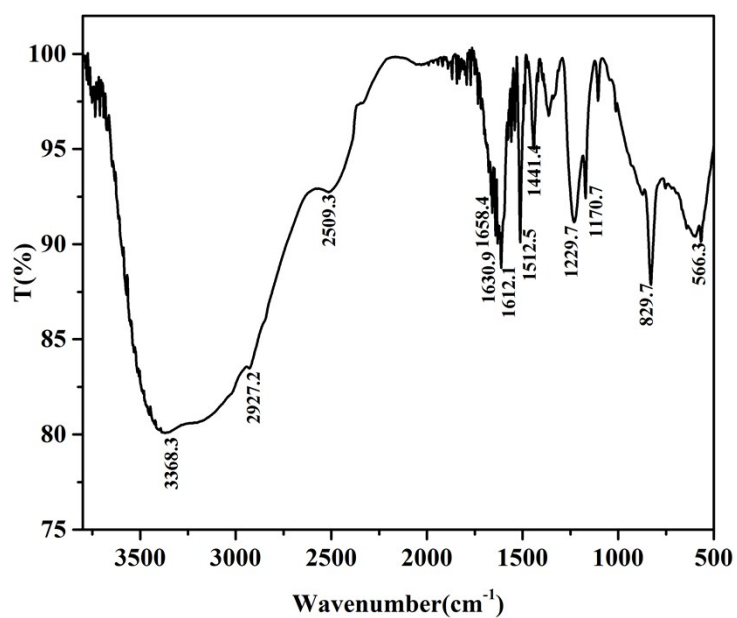


Figure S4. IR spectrum of *iP(p-HOS)* sample obtained from hydrolysis of *iP(p-TBDMSOS)*