

Electronic supplementary information (ESI)

Organic-Inorganic Rod-Coil Block Copolymers Comprising Substituted Polyacetylene and Poly(dimethylsiloxane) Segments

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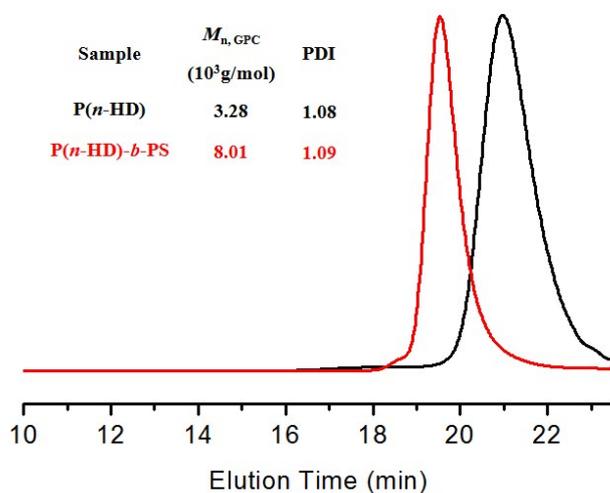


Figure S1. GPC traces of homopolymer P(*n*-HD) and block copolymer P(*n*-HD)-*b*-PS.

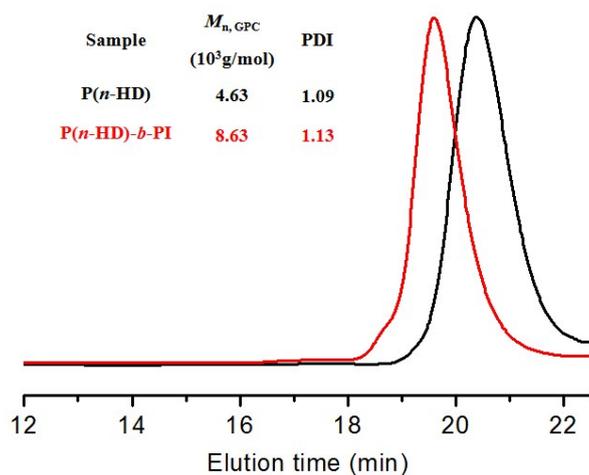


Figure S2. GPC traces of homopolymer P(*n*-HD) and block copolymer P(*n*-HD)-*b*-PI.

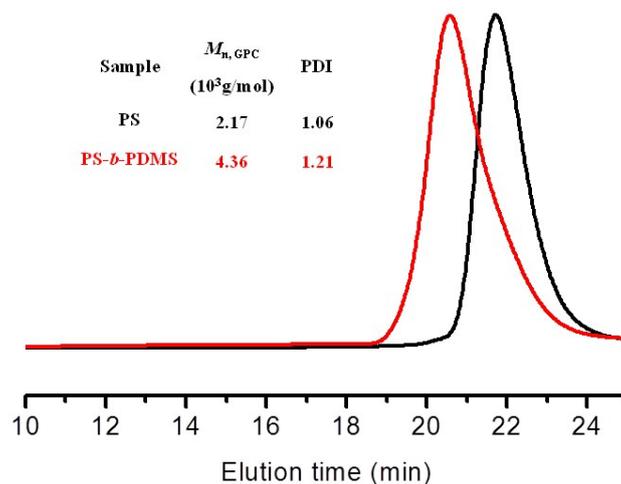


Figure S3. GPC traces of homopolymer P(*n*-HD) and block copolymer P(*n*-HD)-*b*-PDMS.

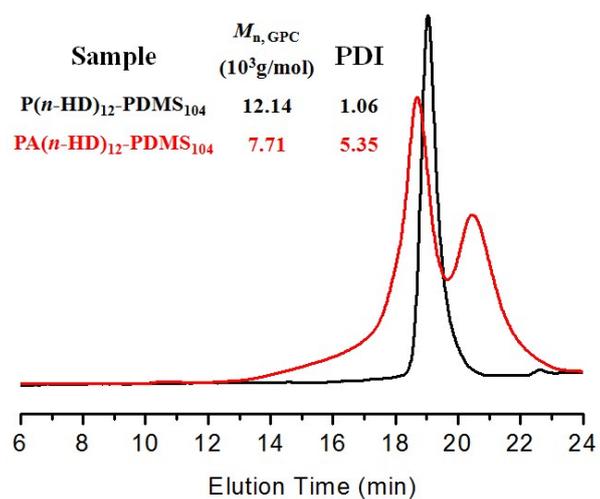


Figure S4. GPC traces of block copolymers P(*n*-HD)₁₂-*b*-PDMS₁₀₄ (fractionated) and PA(*n*-HD)₁₂-*b*-PDMS₁₀₄.

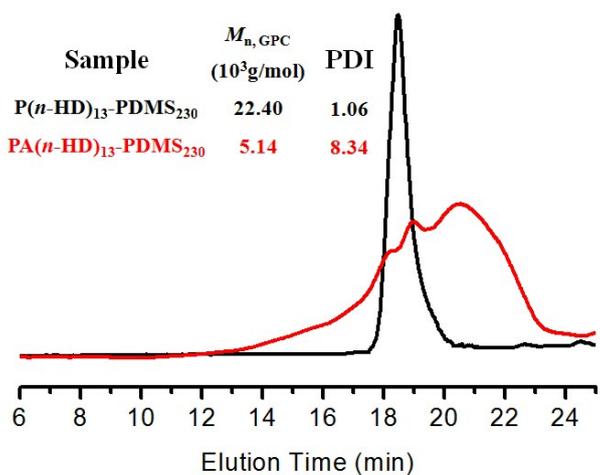


Figure S5. GPC traces of block copolymers P(*n*-HD)₁₃-*b*-PDMS₂₃₀ (fractionated) and PA(*n*-HD)₁₃-*b*-PDMS₂₃₀.

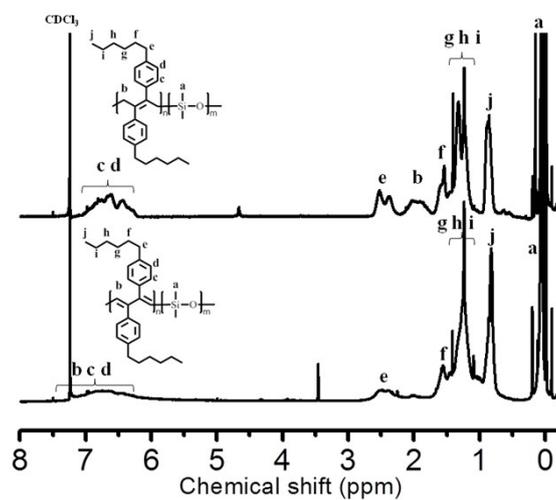


Figure S6. ^1H NMR spectra of block copolymers $\text{P}(n\text{-HD})_{12}\text{-}b\text{-PDMS}_{104}$ and $\text{PA}(n\text{-HD})_{12}\text{-}b\text{-PDMS}_{104}$ measured in CDCl_3 .

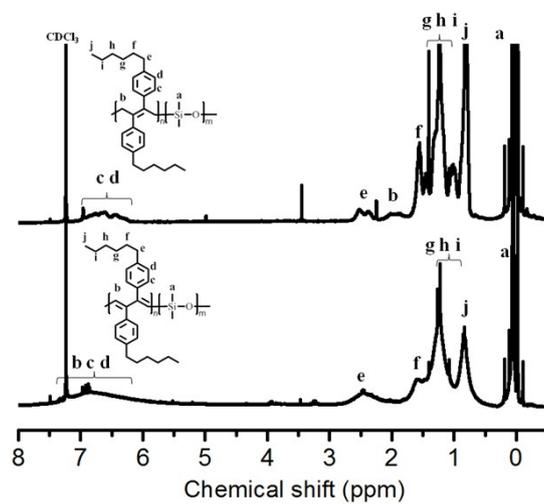


Figure S7. ^1H NMR spectra of block copolymers $\text{P}(n\text{-HD})_{13}\text{-}b\text{-PDMS}_{230}$ and $\text{PA}(n\text{-HD})_{13}\text{-}b\text{-PDMS}_{230}$ measured in CDCl_3 .

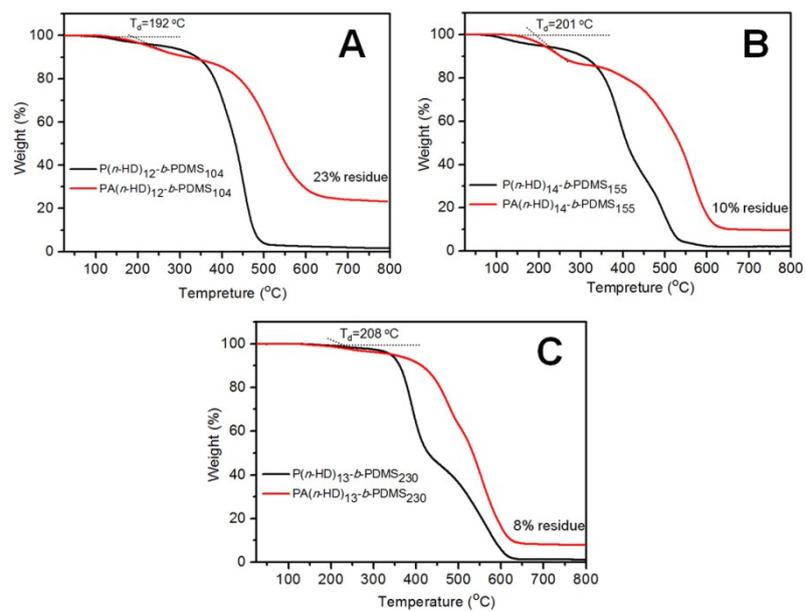


Figure S8. TGA thermograms of block copolymers: (A) P(n -HD)₁₂-*b*-PDMS₁₀₄, PA(n -HD)₁₂-*b*-PDMS₁₀₄ (B) P(n -HD)₁₄-*b*-PDMS₁₅₅, PA(n -HD)₁₄-*b*-PDMS₁₅₅ and (C) P(n -HD)₁₃-*b*-PDMS₂₃₀, PA(n -HD)₁₃-*b*-PDMS₂₃₀.