Double Stranded Polymeric Ladderphanes with 16-π-Electron Antiaromatic Metallocycle Linkers

Hsin-Hua Huang,[†] Chih-Gang Chao, Shern-Long Lee,[‡] Hung-Jen Wu,[‡] Chun-hsien Chen[‡] and Tien-Yau Luh^{*†‡}

Institute of Polymer Science and Engineering and Department of Chemistry, National Taiwan University, Taipei, Taiwan 106

Supplementary Information

¹H and ¹³C NMR spectra of **5-7** and polymers **3** and GPC profiles of **3**.



STANDARD 1H DBSERVE

Pulse Sequence: s2pul











13C DBSERVE



STANDARD 1H OBSERVE



13C OBSERVE



STANDARD 1H DBSERVE









STANDARD 1H OBSERVE







800MHz 13C CDCL3



STANDARD 1H OBSERVE

Pulse Sequence: s2pul









GPC profiles of **3**



3-Ni



3-2H



3-Pd



Figure S1. Cyclic voltammograms of (a) 3-Ni and 7-Ni, (c) 3-2H and 7-2H, (e) 3-Pd and 7-Pd in CH_2Cl_2 (1 x 10⁻³ M) containing 0.1 M Bu_4NPF_6 . Scan rate = 100 mVs⁻¹ and differential pulse voltammograms of (b) 3-Ni and 7-Ni, (d) 3-2H and 7-2H, (f) 3-Pd and 7-Pd under same conditions with step potential = 10 mV.