Supplementary Materials

Phase Diagrams of n-Type Low Bandgap Naphthalenediimide-Bithiophene Copolymer Solutions and Blends

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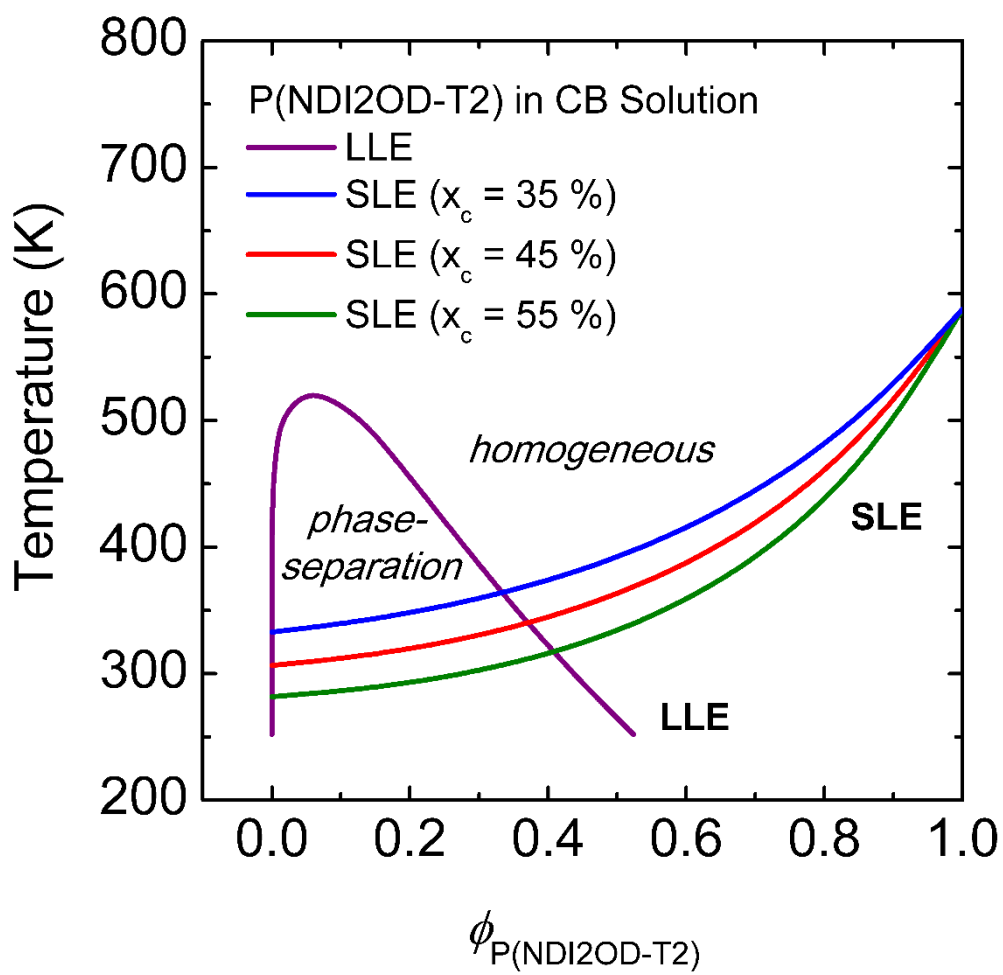E-mail: jungyong.kim@ju.edu.et (J.Y. Kim)

Figure S1. Theoretical phase diagrams of binary polymer solutions: P(NDI2OD-T2)-CB. Melting point depression curves are calculated for three hypothetical crystallinities of P(NDI2OD-T2), i.e., x_c = 35% (blue line), 45% (red), and 55% (green).
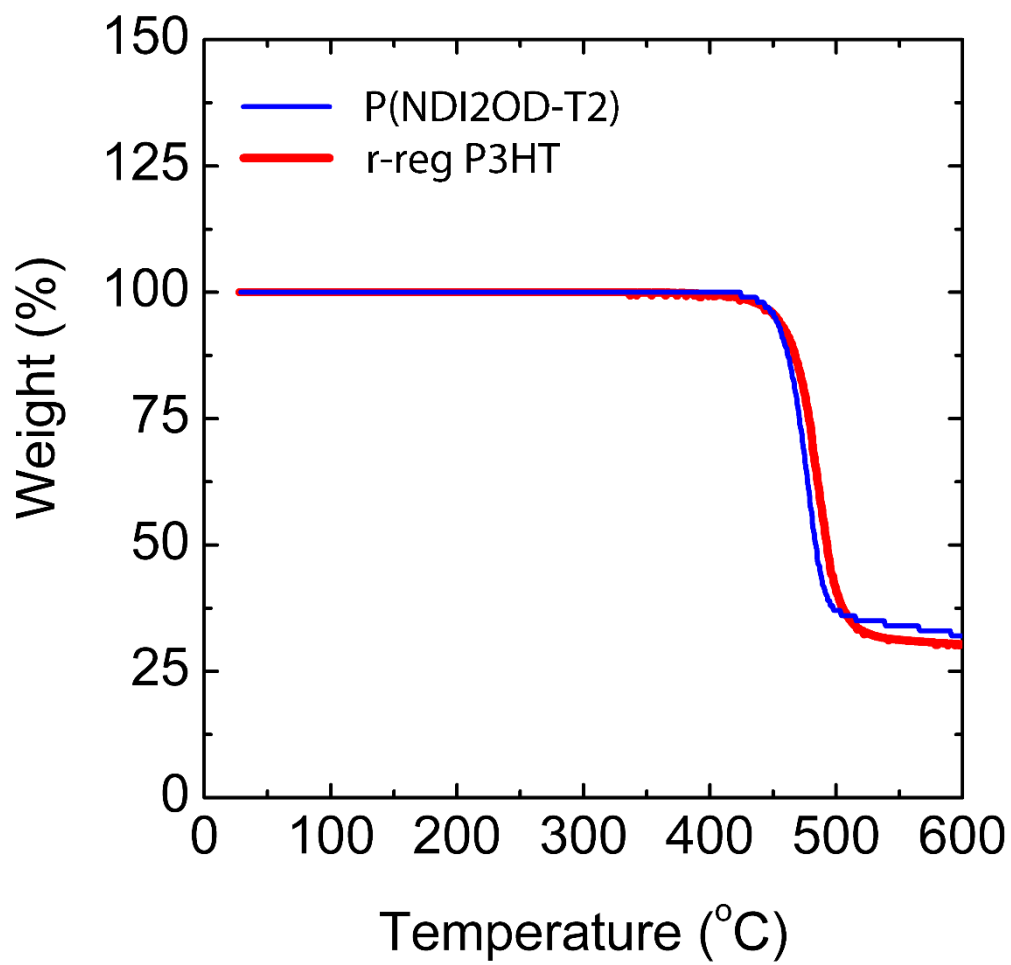
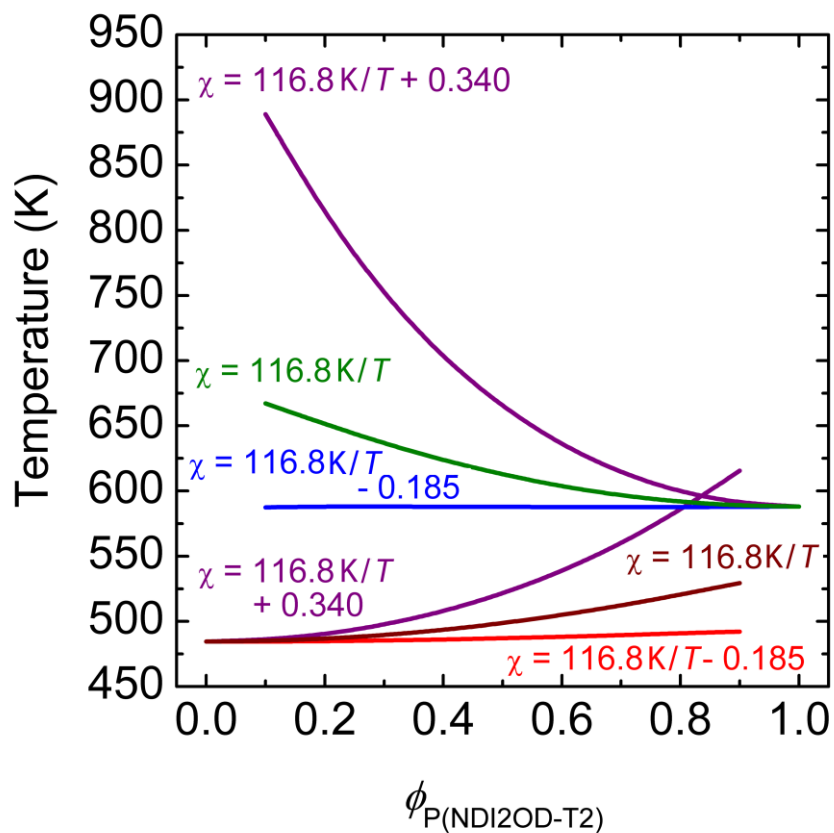Figure S2. TGA thermograms of P(NDI2OD-T2) and r-reg P3HT.

Figure S3.Theoretical description of melting points for the binary r-reg P3HT/P(NDI2OD-T2) system by using the theory of melting point depression combined with Flory-Huggins model incorporating the polymer-polymer interaction parameters of 116.8 K/T + 0.340, 116.8 K/T, and 116.8 K/T − 0.185, respectively.