Supporting Information

A thieno[3,4-f]isoindole-5,7-dione based copolymer for polymer solar cells

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Figure. S1 $^1$H spectra of Compound (2)

Figure. S2 $^{13}$C spectra of Compound (2)
Figure. S3 $^1$H spectra of Compound (3)

Figure. S4 $^{13}$C spectra of Compound (3)
Figure S5 $^1$H spectra of Compound (4)

Figure S6 $^{13}$C spectra of Compound (4)
Figure. S7 (a) TGA plot of PBDTTID with a heating rate of 10 °C/min under the protection of nitrogen and (b) DSC thermograms of PBDTTID under the protection of nitrogen. (heating and cooling rate: 10 °C/min)

Fig. S8 Tapping mode AFM topography (a) and phase (b) images of pure polymer film.