

Supporting Information

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

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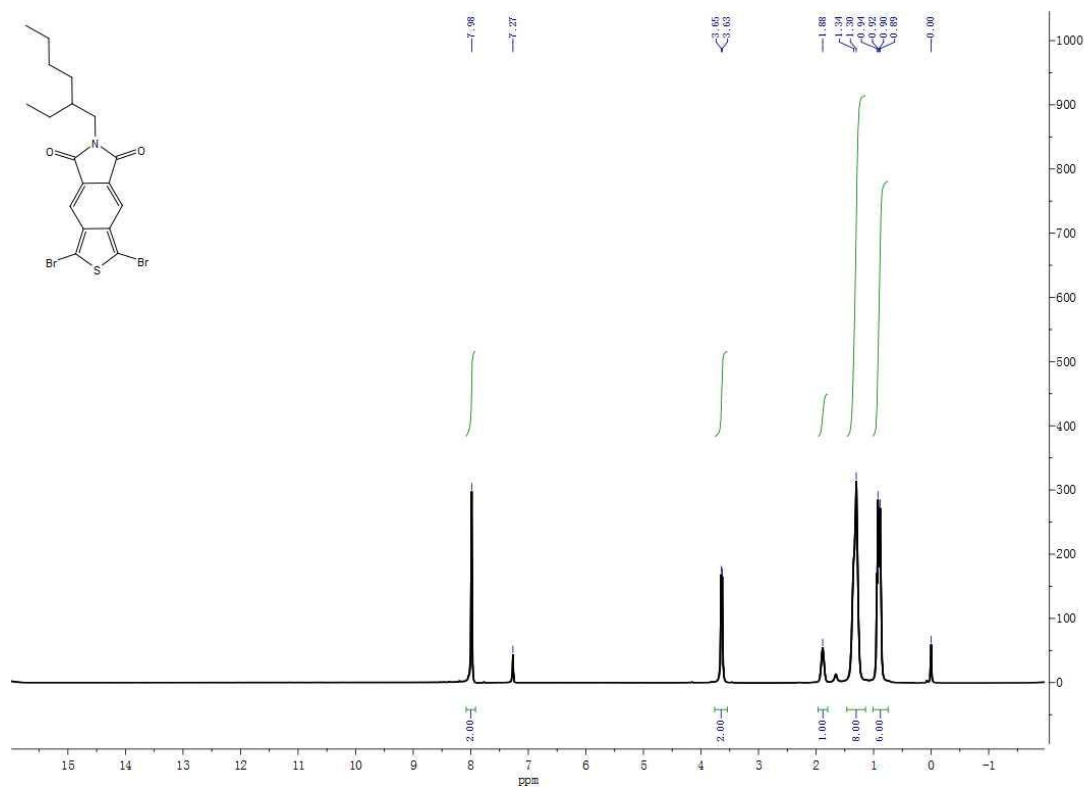


Figure. S1 ¹H spectra of Compound (2)

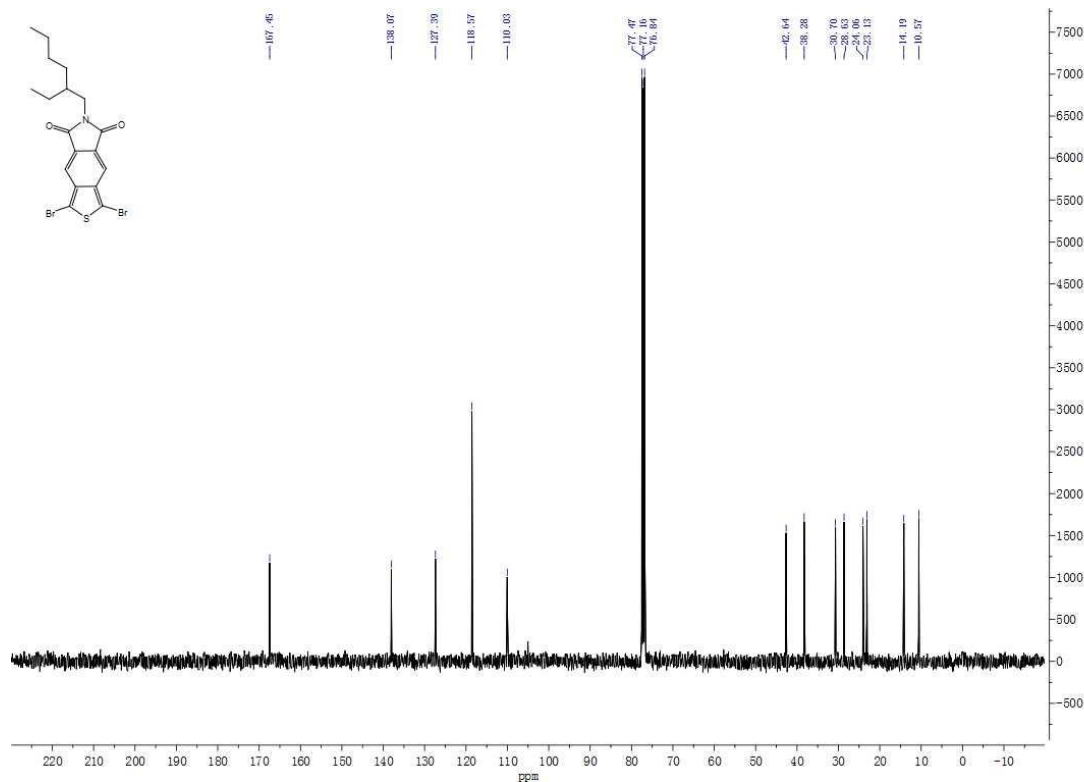


Figure. S2 ¹³C spectra of Compound (2)

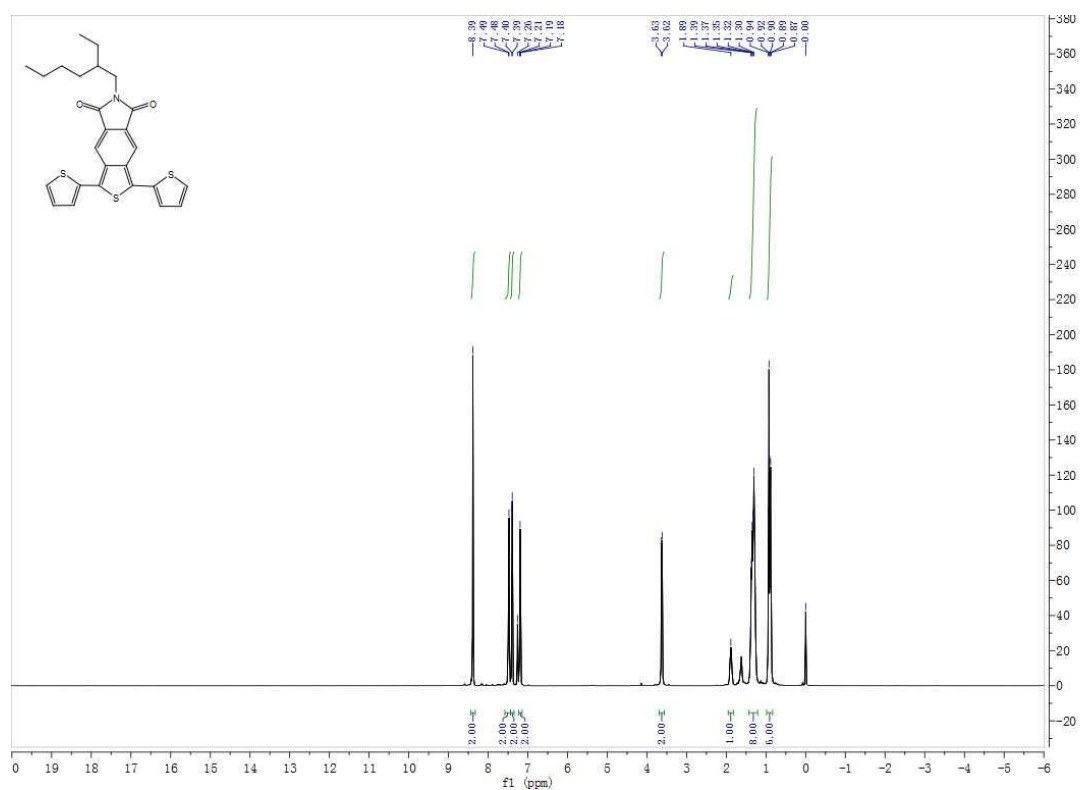


Figure. S3 ¹H spectra of Compound (3)

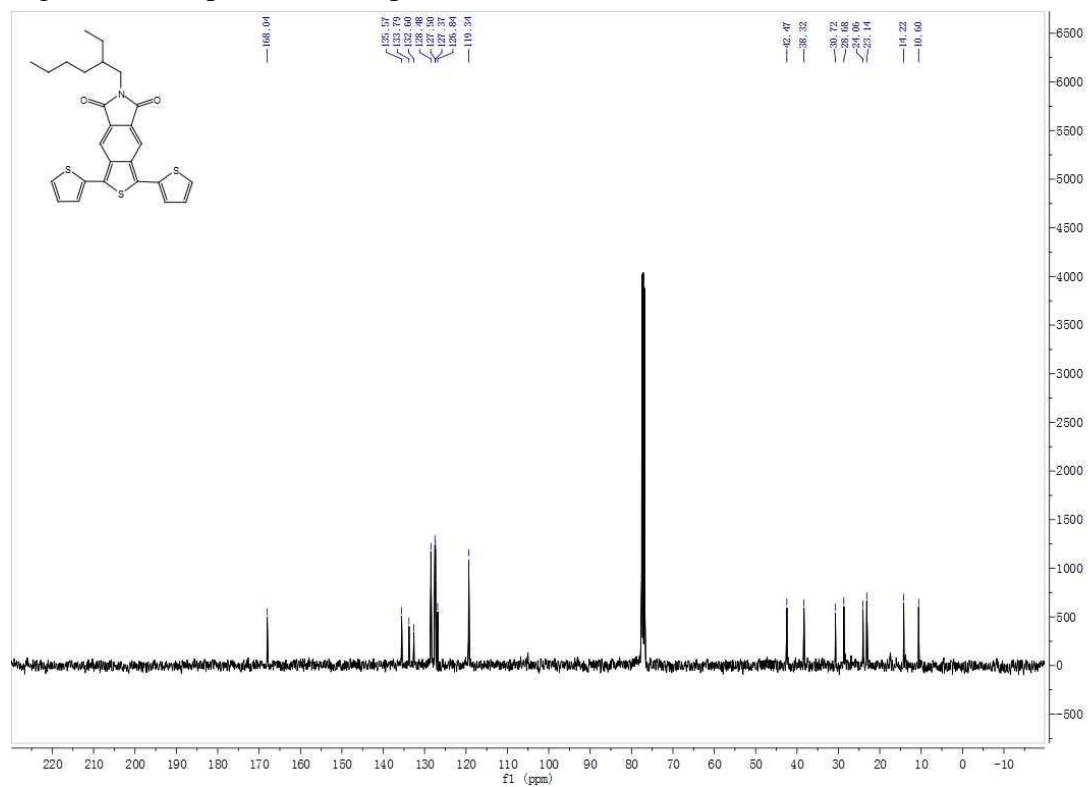


Figure. S4 ¹³C spectra of Compound (3)

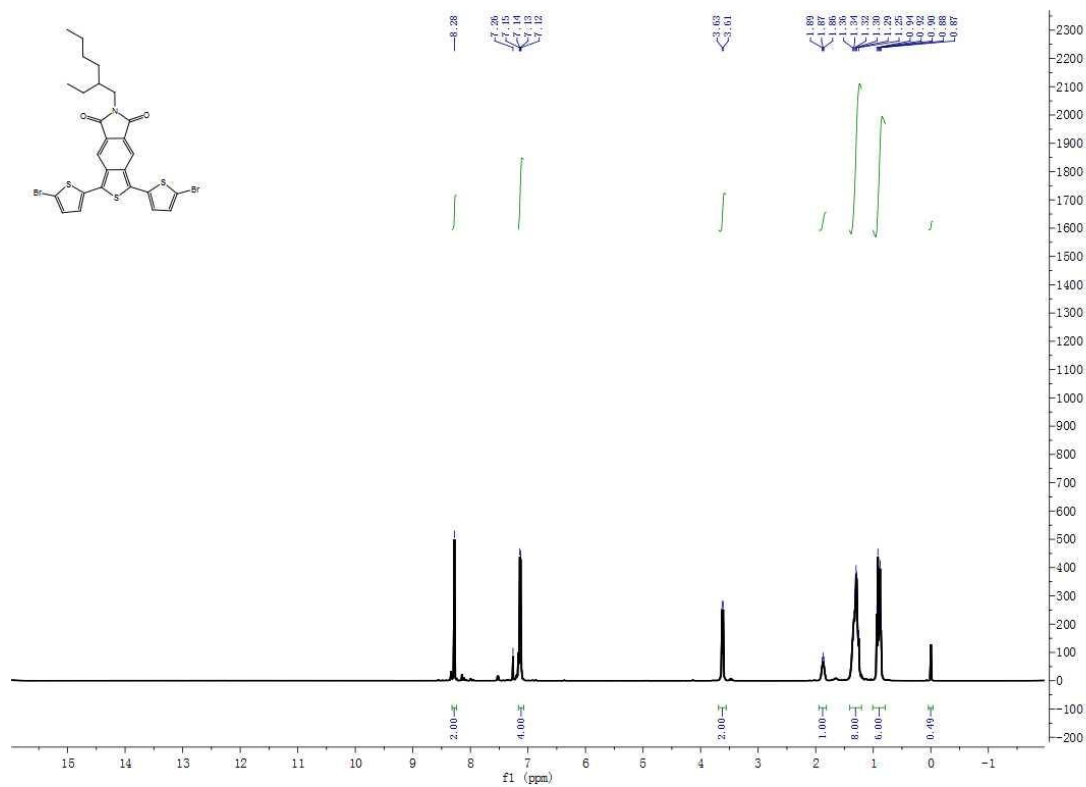


Figure. S5 ¹H spectra of Compound (4)

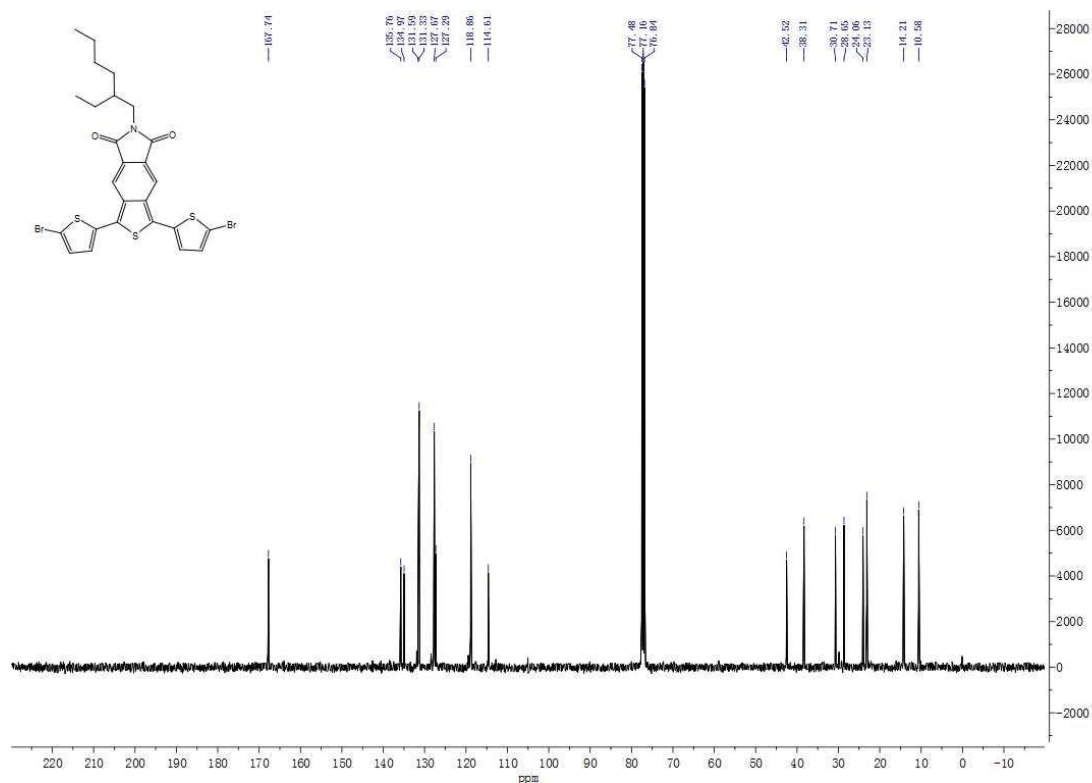


Figure. S6 ¹³C spectra of Compound (4)

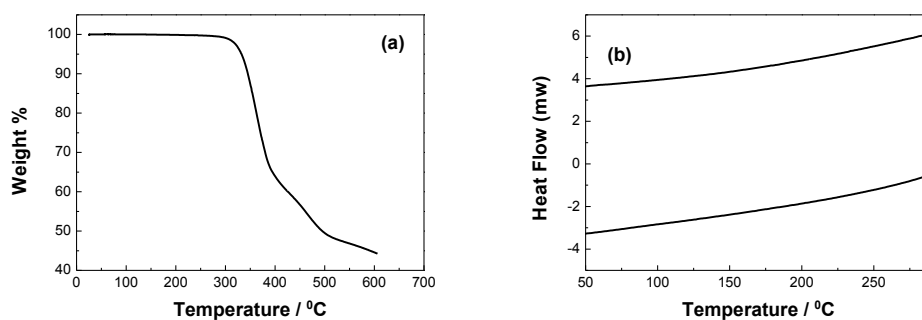


Figure. S7 (a) TGA plot of PBDTTID with a heating rate of 10 °C/min under the protection of nitrogen and (b) DSC thermograms of PBDTTID under the protection of nitrogen. (heating and cooling rate: 10 °C/min)

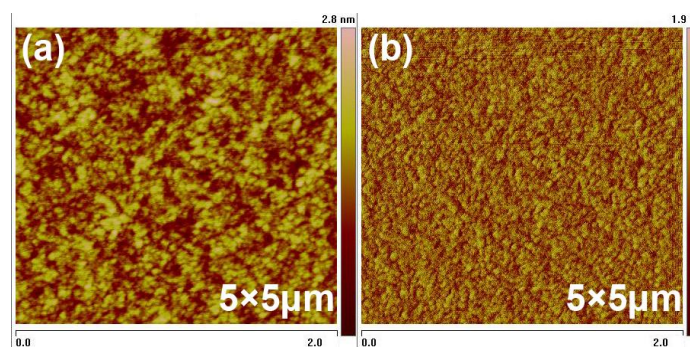


Fig. S8 Tapping mode AFM topography (a) and phase (b) images of pure polymer film.