

Synthesis and Memory Characteristics of Highly Organo-soluble Polyimides Bearing a Noncoplanar Twisted Biphenyl Unit Containing Aromatic Side-chain Groups

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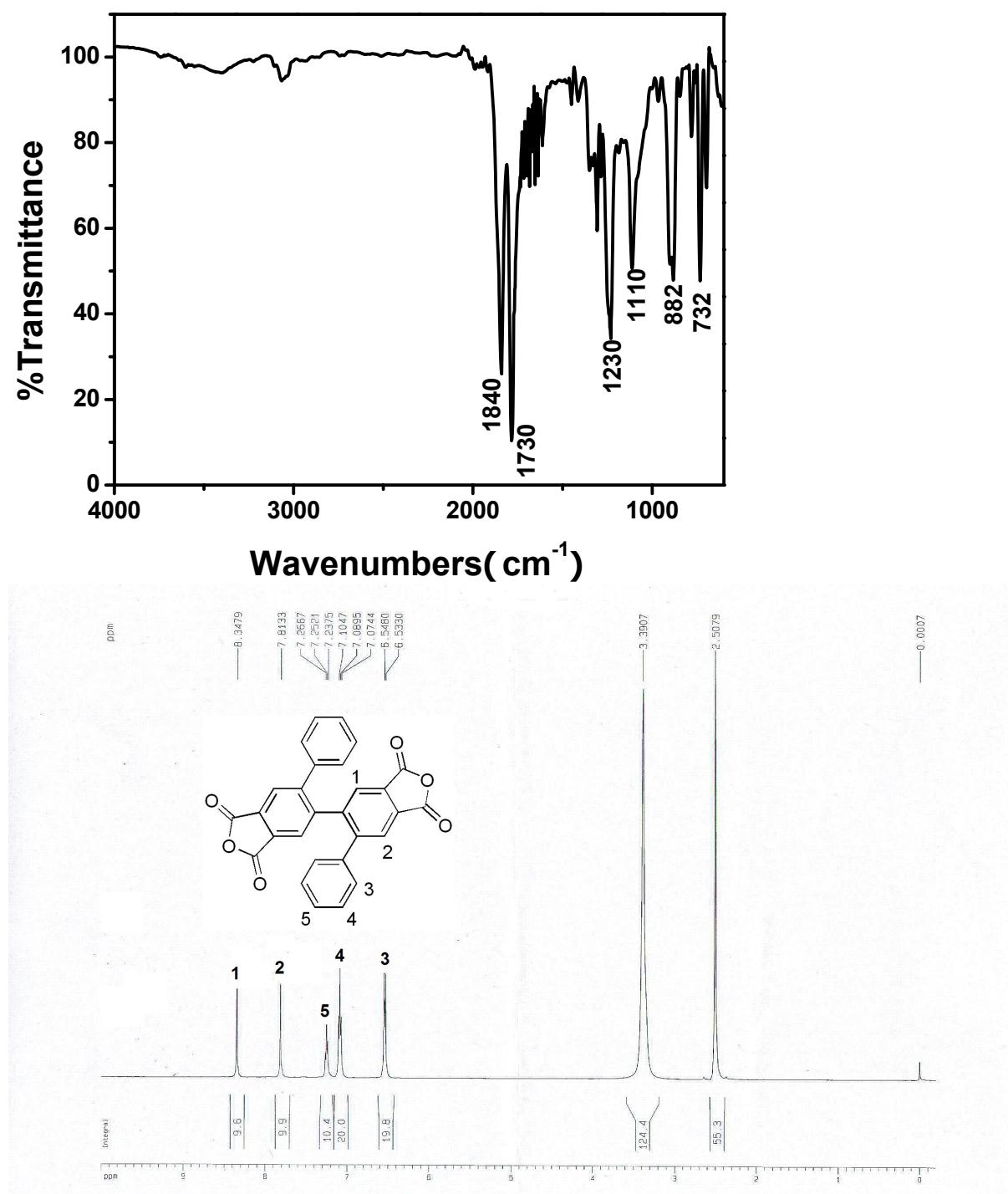
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2. FT-IR, ¹H NMR and ¹³C NMR spectra of BTFBPDA.
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4. DSC curves of PI(BTFBPD-DPBPDA) and PI(BTFBPD-BTFBPDA) at heating of 10 °C/min under nitrogen atmosphere.



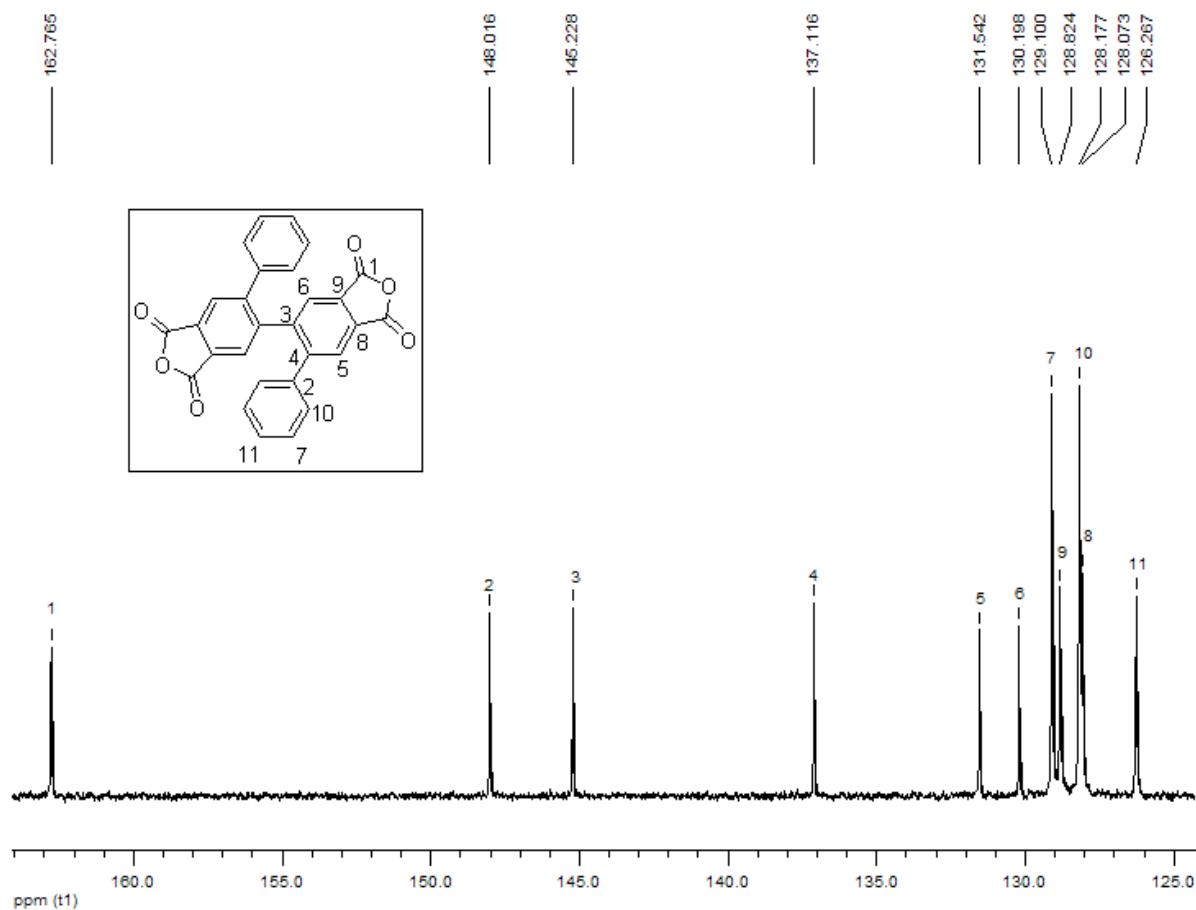
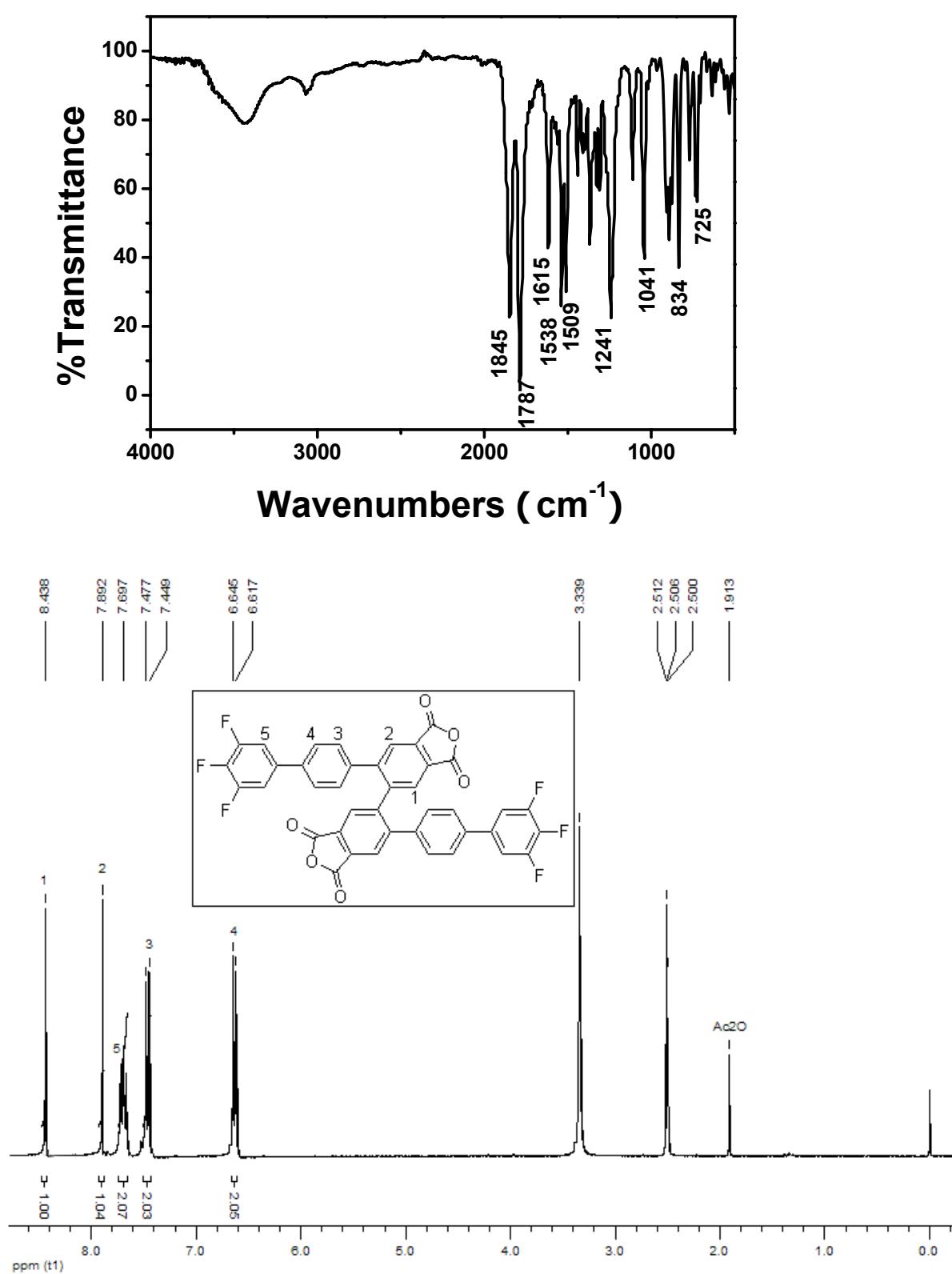


Fig. S1. FT-IR, ¹H NMR and ¹³C NMR spectra of BPBPDA.



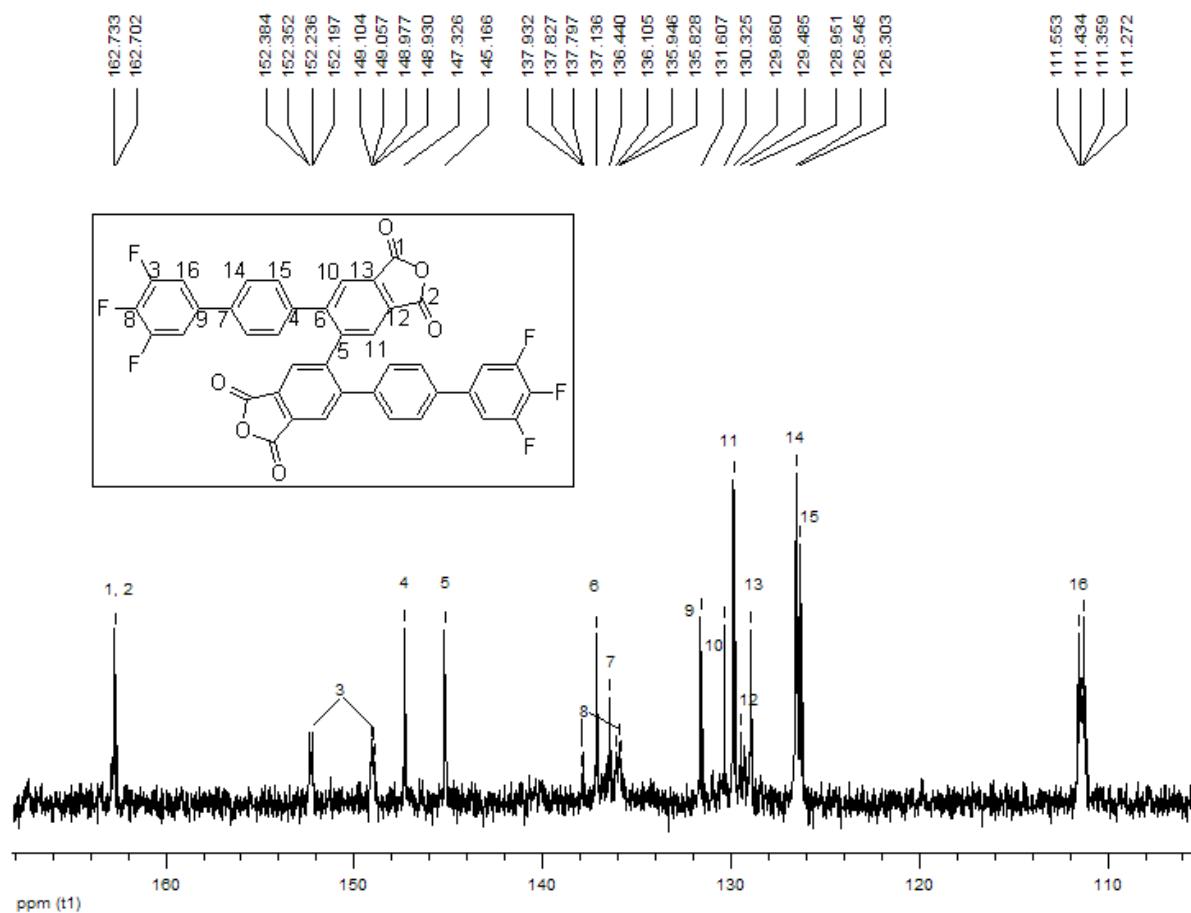


Fig. S2. FT-IR, ¹H NMR and ¹³C NMR spectra of BTFBPDA.

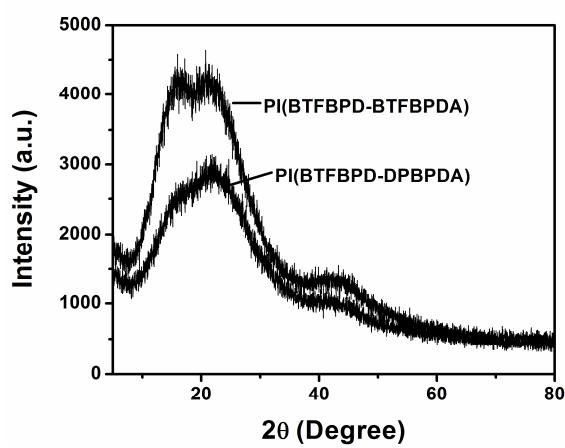


Fig. S3 X-ray diffraction (XRD) patterns of PI(BTFBPD-DPBPDPA) and PI(BTFBPD-BTFBPDA).

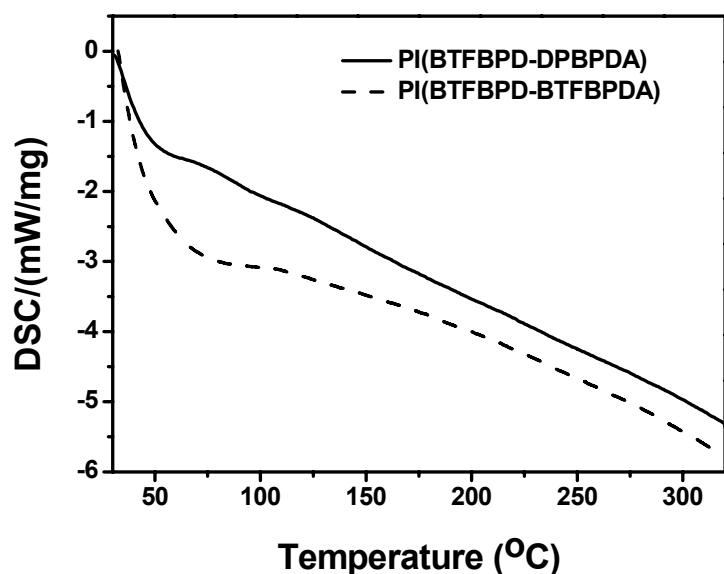


Fig. S4 DSC curves of PI(BTFBPD-DPBPDA) and PI(BTFBPD-BTFBPDA) at heating of 10 °C/min under nitrogen atmosphere.