Supporting Information for

Preparation of conjugated polyphenylenes from maleimide-based enediynes through thermal triggered Bergman cyclization

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Figure S1. DSC curves of enediyne compounds 6a and 1,2-diphenylacetylenylethene.

Figure S2. MALDI-TOF mass spectrum of polymer obtained from addition of styrene to a freshly prepared polymer 7a.
**Figure S3** $^1$H NMR spectrum of compound 6a

**Figure S4** $^{13}$C NMR spectrum of compound 6a
Figure S5 $^1$H NMR spectrum of compound 6b

Figure S6 $^{13}$C NMR spectrum of compound 6b
Figure S7 $^1$H NMR spectrum of compound 6c

Figure S8 $^{13}$C NMR spectrum of compound 6c
Figure S9 $^1$H NMR spectrum of compound 6d

Figure S10 $^{13}$C NMR spectrum of compound 6d
Figure S11 $^1$H NMR spectrum of compound 6e

Figure S12 $^{13}$C NMR spectrum of compound 6e
Figure S13 $^1$H NMR spectrum of oligomer 7a

Figure S14 $^{13}$C NMR spectrum of oligomer 7a
Figure S15 $^1$H NMR spectrum of oligomer 7c

Figure S16 $^{13}$C NMR spectrum of oligomer 7c
Figure S17 $^1$H NMR spectrum of oligomer 7d

Figure S18 $^{13}$C NMR spectrum of oligomer 7d
Figure S19 $^1$H NMR spectrum of oligomer 7e

Figure S20 $^{13}$C NMR spectrum of oligomer 7e
Figure S21. IR spectra of 6b and 7b.

Figure S22. IR spectra of 6c and 7c.
**Figure S23.** IR spectra of 6d and 7d.

**Figure S24.** IR spectra of 6e and 7e.
Figure S25. UV–vis absorbance spectra of 6a (solid line) and 7a (dot line), $10^{-4}$ mol/L in THF.

Figure S26. UV–vis absorbance spectra of 6c (solid line) and 7c (dot line), $10^{-4}$ mol/L in THF.
**Figure S27.** UV–vis absorbance spectra of 6d (solid line) and 7d (dot line), $10^{-4}$ mol/L in THF.

**Figure S28.** UV–vis absorbance spectra of 6e (solid line) and 7e (dot line), $10^{-4}$ mol/L in THF.
Figure S29. MALDI-TOF mass spectrum of a 7a

Figure S30. MALDI-TOF mass spectrum of a 7c
Figure S31. MALDI-TOF mass spectrum of a 7d

Figure S32. MALDI-TOF mass spectrum of a 7e
**Figure S33.** Full MALDI-TOF mass spectrum of a 7b

**Figure S34.** TGA curves of enediyne compounds.