Supporting information for

Bridge-like polymer synthesized by tandem metathesis
cyclopolymerization and acyclic diene metathesis polymerization

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Scheme S1 Reaction of monomer 1 with catalyst Ru-III and conformation of ladder-like poly(1).

Fig. S1 $^1$H NMR spectrum of TA (*denote solvent).

Fig. S2 $^{13}$C NMR spectrum of TA (*denote solvent).
Fig. S3 $^1$H NMR spectrum for PBI-COOH (*denote solvent).

Fig. S4 $^{13}$C NMR spectrum for PBI-COOH (*denote solvent).

Fig. S5 $^{13}$C NMR spectrum for monomer 1 (*denote solvent).
Fig. S6 $^{13}$C NMR spectra of (a) poly(1)*, (b) poly(1), and (c) poly(2).

Fig. S7 IR spectra for 1 and poly(1).
Fig. S8 HR-TEM images of poly(1).

Fig. S9 HR-TEM images of poly(2).