## Supplementary Information

## Chiroptical inversion induced by sandwiching units in chiral Polythiourethane

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## Experimental Section

Measurement. ${ }^{1} \mathrm{H}(270 \mathrm{MHz})$ and ${ }^{13} \mathrm{C}$ NMR ( 67.5 MHz ) spectra were recorded on a JEOL JNM EX-270 spectrometer using tetramethylsilane (TMS) as an internal standard in $\mathrm{CDCl}_{3}, \mathrm{CD}_{2} \mathrm{Cl}_{2}$, or DMSO- $d_{6}$. FT-IR spectra were obtained using a JASCO FT/IR-210 spectrometer. Specific rotations $\left([\alpha]_{D}\right)$ were measured on a JASCO DIP-1000 digital polarimeter that was equipped with a sodium lamp as 10 a light source. Circular dichroism (CD) spectra were measured on a JASCO J-720 spectropolarimeter. Number average molecular weight $\left(M_{\mathrm{n}}\right)$ and polydispersity $\left(M_{\mathrm{w}} / M_{\mathrm{n}}\right)$ were estimated by size-exclusion chromatography (SEC) using a Tosoh HPLC HLC-8020 system equipped with four consecutive polystyrene gel columns [TSK gels (bead size, exclusion limited molecular weight); $\alpha \mathrm{M}\left(13 \mu \mathrm{~m},>1 \times 10^{7}\right.$ ), $\alpha 4000 \mathrm{H}\left(10 \mu \mathrm{~m},>1 \times 10^{6}\right), \alpha 3000 \mathrm{H}\left(7 \mu \mathrm{~m},>1 \times 10^{5}\right)$, and $\left.\alpha 2500 \mathrm{H}\left(7 \mu \mathrm{~m},>1 \times 10^{4}\right)\right]$; further, it had a refractive index and ultraviolet detectors at $40^{\circ} \mathrm{C}$. The system was operated at a flow rate of $1.0 \mathrm{~mL} / \mathrm{min}$ using an $N, N$-dimethylformamide (DMF) solution ( 50 mM lithium
15 bromide and 50 mM phosphoric acid) as an eluent. Polystyrene standards were employed for calibration. Differential scanning calorimetry (DSC) measurements were performed using an SII DSC-6200 instrument at a heating rate of $10^{\circ} \mathrm{C} / \mathrm{min}$ under nitrogen atmosphere.

Materials. 4(S)-(Methoxycarbonyl)-1,3-oxazolidine-2-thione( $\mathbf{S}_{\mathbf{L}}$ ), 4(S)-(methoxycarbonyl)-1,3-oxazolidine-2-thione ( $\mathbf{S}_{\mathbf{D}}$ ), and $4(\mathrm{~S})$-(methoxycarbonyl)- $N$-benzoyl-1,3-oxazolidine-2-thione $\left(\mathbf{B z S}_{\mathbf{L}}\right)$ were synthesized according to the previously reported method. ${ }^{[4-6]} \mathrm{CH}_{2} \mathrm{Cl}_{2}$ was distilled over $\mathrm{CaH}_{2}$ before use. The other reagents were used as received.

Copolymerization of $\mathbf{S}_{\mathbf{L}}$ with $\mathbf{B z S}_{\mathbf{L}}$. Typical procedure: $\operatorname{Dry} \mathrm{CH}_{2} \mathrm{Cl}_{2}(6.0 \mathrm{~mL})$ and TfOMe ( $10 \mu \mathrm{~L}, 9.15 \mu \mathrm{~mol}, 3.04 \mathrm{~mol} \%$ to monomers) were introduced into a polymerization tube containing $\mathbf{S}_{\mathbf{L}}(0.24 \mathrm{~g}, 1.5 \mathrm{mmol})$ and $\mathbf{B z S} \mathbf{S}_{\mathbf{L}}(0.40 \mathrm{~g}, 1.5 \mathrm{mmol})$. The resulting mixture remained homogeneous. After quenching with methanol $(0.2 \mathrm{~mL})$, the resulting mixture was poured into ethyl ether ( 300 mL ) in order to precipitate a polymer. The polymer was collected by filtration with suction and dried under vacuum. Poly $\left(\mathbf{S}_{\mathbf{L}}-\mathrm{co}-\mathbf{B z} \mathbf{S}_{\mathbf{L}}\right)$ was obtained as a colorless solid in high yield (Yield $=93 \%)$. $[\alpha]_{\mathrm{D}}{ }^{30}=-83.4^{\circ}\left(c=0.1 \mathrm{~g} / \mathrm{dL}\right.$ in $\left.\mathrm{CH}_{2} \mathrm{Cl}_{2}\right) .{ }^{1} \mathrm{H} \mathrm{NMR}\left(\mathrm{CDCl}_{3}\right): \delta=2.34$ (initiating 25 end, $\left.\mathrm{S}-\mathrm{CH}_{3}\right), 3.04-4.32\left(4 \mathrm{H},-\mathrm{CH}_{2}-\right.$, and $\left.-\mathrm{CH}_{2}-\right), 3.71-3.79\left(6 \mathrm{H},-\mathrm{OCH}_{3}\right.$, and $\left.-\mathrm{OCH} \mathrm{O}_{3}\right), 5.38-5.72(2 \mathrm{H},>\mathrm{CH}-$, and $>\mathrm{CH}-), 7.32-7.95(5 \mathrm{H}$, $\left.-\mathrm{C}_{6} \mathrm{H}_{5}\right), 8.29-8.87(1 \mathrm{H},-\mathrm{NH}-) \mathrm{ppm} .{ }^{13} \mathrm{C} \mathrm{NMR}\left(\mathrm{CDCl}_{3}\right): \delta=30.87\left(-\mathrm{CH}_{2}-\right), 32.17\left(-\mathrm{CH}_{2}-\right), 52.25\left(-\mathrm{OCH}_{3}\right), 52.67(-\mathrm{OCH} 3), 54.26(-\mathrm{CH}<)$, $59.98(-\mathrm{CH}<), 128.36,129.39,133.70,134.93\left(-\mathrm{C}_{5} \mathrm{H}_{6}\right), 164.40$ (inversed thiourethane, $-\mathrm{SCONH}-$ ), 166.58 (-SCONH-), 168.35 (-SCONH-), $170.19\left(-\mathrm{NHCOC}_{5} \mathrm{H}_{6}\right), 171.16\left(-\mathrm{COOCH}_{3}\right), 171.20$ (inversed ester, $\left.-\mathrm{COOCH}_{3}\right), 172.18\left(-\mathrm{COOCH}_{3}\right) \mathrm{ppm}$. IR (KBr): $3347,1755,1690$, $1654,1504,1442,1296,1203 \mathrm{~cm}^{-1}$.
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$\operatorname{Poly}\left(\mathbf{S}_{\mathbf{D}}-\mathbf{c o}-\mathbf{B z S}_{\mathbf{L}}\right)\left(\operatorname{from} \mathbf{S}_{\mathbf{D}}(1.5 \mathrm{mmol})\right.$ and $\left.\mathbf{B z S} \mathbf{S}_{\mathbf{L}}(1.5 \mathrm{mmol})\right)$ : Yield $=94 \% .[\alpha]_{\mathrm{D}}{ }^{30}=-94.8^{\circ}\left(c=0.1 \mathrm{~g} / \mathrm{dL}^{(i n ~} \mathrm{CH}_{2} \mathrm{Cl}_{2}\right) .{ }^{1} \mathrm{H}$ NMR $\left(\mathrm{CDCl}_{3}\right): \delta=2.34$ (initiating end, $\left.\mathrm{S}-\mathrm{CH}_{3}\right), 2.68-4.15\left(4 \mathrm{H},-\mathrm{CH}_{2}-\right.$, and $\left.-\mathrm{CH}_{2}-\right), 3.70-3.81\left(6 \mathrm{H},-\mathrm{OCH}_{3}\right.$, and $\left.-\mathrm{OCH} \mathrm{C}_{3}\right), 4.80-5.56(2 \mathrm{H}$, $>\mathrm{CH}-$, and $>\mathrm{CH}-), 7.27-7.62\left(5 \mathrm{H},-\mathrm{C}_{6} \mathrm{H}_{5}\right), 7.80-8.51(1 \mathrm{H},-\mathrm{NH}-) \mathrm{ppm} .{ }^{13} \mathrm{C} \operatorname{NMR}\left(\mathrm{CDCl}_{3}\right): \delta=30.56\left(-\mathrm{CH}_{2}-\right), 32.12\left(-\mathrm{CH}_{2}-\right), 52.19$ $\left(-\mathrm{OCH}_{3}\right), 52.58\left(-\mathrm{OCH}_{3}\right), 54.21(-\mathrm{CH}<), 59.90(-\mathrm{CH}<), 128.44,129.48,132.27,133.79\left(-C_{5} \mathrm{H}_{6}\right), 166.58(-\mathrm{SCONH}), 168.37(-\mathrm{SCONH}-)$, $170.18\left(-\mathrm{NHCOC}_{5} \mathrm{H}_{6}\right), 171.24\left(-\mathrm{COOCH}_{3}\right), 172.15\left(-\mathrm{COOCH}_{3}\right) \mathrm{ppm}$. IR (KBr): 3302, 1749, 1690, 1658, 1512, 1442, 1296, 1247, 1203 $35 \mathrm{~cm}^{-1}$.

Block copolymerization of $\mathbf{S}_{\mathbf{L}}$ with $\mathbf{B z S}_{\mathbf{L}}$. Typical procedure: A solution of $\mathbf{S}_{\mathbf{L}}(0.24 \mathrm{~g}, 1.5 \mathrm{mmol})$ and $\mathrm{TfOMe}(10 \mu \mathrm{~L}, 9.15$ $\mu \mathrm{mol}, 3.04 \mathrm{~mol} \%$ to monomer) in dry $\mathrm{CH}_{2} \mathrm{Cl}_{2}(3.0 \mathrm{~mL})$ was placed in a polymerization tube under nitrogen atmosphere. The resulting mixture was subjected to polymerization at $30^{\circ} \mathrm{C}$ for 16 h under nitrogen. After $\mathbf{S}_{\mathbf{L}}$ was completely consumed, a solution of $\mathbf{B z S} \mathbf{S}_{\mathbf{L}}(0.40 \mathrm{~g}$, $1.5 \mathrm{mmol})$ in $\mathrm{CH}_{2} \mathrm{Cl}_{2}(3.0 \mathrm{~mL})$ was added to the polymerization mixture. The reactive mixture was stirred at $30{ }^{\circ} \mathrm{C}$ for 4 d , quenched with

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40 methanol, and poured into ethyl ether in order to precipitate a polymer. The polymer was collected by filtration with suction and dried under vacuum. Poly $\left(\mathbf{S}_{\mathbf{L}}-b-\mathbf{B z S}_{\mathbf{L}}\right)$ was obtained as a colorless solid in quantitative yield. $[\alpha]_{\mathrm{D}}{ }^{30}=-43.2^{\circ}\left(c=0.1 \mathrm{~g} / \mathrm{dL} \mathrm{in} \mathrm{CH}_{2} \mathrm{Cl}_{2}\right) .{ }^{1} \mathrm{H}$ NMR $\left(\mathrm{CDCl}_{3}\right): \delta=2.34$ (initiating end, $\left.\mathrm{S}-\mathrm{CH}_{3}\right), 2.72-4.15\left(4 \mathrm{H},-\mathrm{CH}_{2}-\right.$, and $\left.\left.-\mathrm{CH}_{2}-\right), 3.73-3.79(6 \mathrm{H},-\mathrm{OCH} 3 \text {, and }-\mathrm{OCH})_{3}\right), 4.39-5.58(2 \mathrm{H},>\mathrm{CH}-$, and $>\mathrm{CH}-), 7.27-7.76\left(5 \mathrm{H},-\mathrm{C}_{6} H_{5}\right), 7.82-8.48(1 \mathrm{H},-\mathrm{NH}-) \mathrm{ppm} .{ }^{13} \mathrm{C} \mathrm{NMR}\left(\mathrm{CDCl}_{3}\right): \delta=30.54\left(-\mathrm{CH}_{2}-\right), 32.16\left(-\mathrm{CH}_{2}-\right), 52.15\left(-\mathrm{OCH}_{3}\right), 52.42$ $\left(-\mathrm{OCH}_{3}\right), 54.25(-\mathrm{CH}<), 59.88(-\mathrm{CH}<), 128.42,129.43,132.29,133.74\left(-C_{5} \mathrm{H}_{6}\right), 166.56(-\mathrm{SCONH}-), 168.32(-\mathrm{SCONH}-), 170.14$
$45\left(-\mathrm{NHCOC}_{5} \mathrm{H}_{6}\right), 171.25\left(-\mathrm{COOCH}_{3}\right), 172.14\left(-\mathrm{COOCH}_{3}\right) \mathrm{ppm}$. IR (KBr): 3301, 1744, 1691, 1658, 1512, 1447, 1295, 1246, $1203 \mathrm{~cm}^{-1}$.
$\operatorname{Poly}\left(\mathbf{S}_{\mathbf{D}}-\boldsymbol{b}-\mathrm{BzS}_{\mathrm{L}}\right):$ Yield $=$ quantitative. $[\alpha]_{\mathrm{D}}{ }^{30}=-198.5^{\circ}\left(c=0.1 \mathrm{~g} / \mathrm{dL}\right.$ in $\left.\mathrm{CH}_{2} \mathrm{Cl}_{2}\right) .{ }^{1} \mathrm{H} \mathrm{NMR}\left(\mathrm{CDCl}_{3}\right): \delta=2.34$ (initiating end, $\left.\mathrm{S}-\mathrm{CH}_{3}\right), 2.76-3.95\left(4 \mathrm{H},-\mathrm{CH}_{2}-\right.$, and $\left.-\mathrm{CH}_{2}-\right), 3.73-3.79\left(6 \mathrm{H},-\mathrm{OCH}_{3}\right.$, and $\left.-\mathrm{OCH}_{3}\right), 4.40-5.54(2 \mathrm{H},>\mathrm{CH}-$, and $>\mathrm{CH}-), 7.27-7.88\left(5 \mathrm{H},-\mathrm{C}_{6} \mathrm{H}_{5}\right)$, $7.96-8.64(1 \mathrm{H},-\mathrm{NH}-) \mathrm{ppm} .{ }^{13} \mathrm{C}$ NMR $\left(\mathrm{CDCl}_{3}\right): \delta=30.43\left(-\mathrm{CH}_{2}-\right), 31.99\left(-\mathrm{CH}_{2}-\right), 52.10\left(-\mathrm{OCH}_{3}\right), 52.49\left(-\mathrm{OCH}_{3}\right), 54.16(-\mathrm{CH}<), 59.55$ $(-\mathrm{CH}<), 128.42,129.44,132.26,133.79\left(-\mathrm{C}_{5} \mathrm{H}_{6}\right), 166.51(-\mathrm{SCONH}-), 168.35(-\mathrm{SCONH}-), 170.09\left(-\mathrm{NHCOC}_{5} \mathrm{H}_{6}\right), 171.22\left(-\mathrm{COOCH}_{3}\right)$, $50172.15\left(-\mathrm{COOCH}_{3}\right) \mathrm{ppm}$. IR (KBr): 3301, 1743, 1694, 1657, 1511, 1444, 1298, 1244, $1204 \mathrm{~cm}^{-1}$.

Block copolymerization of $\mathbf{B z S}_{\mathbf{L}}$ with a mixture of $\mathbf{S}_{\mathbf{L}}$ and $\mathbf{B z S} \mathbf{S}_{\mathbf{L}}$. Typical procedure: A solution of $\mathbf{B z S} \mathbf{S}_{\mathbf{L}}(0.27 \mathrm{~g}, 1.0$ mmol ) and TfOMe ( $19 \mu \mathrm{~L}, 16.7 \mu \mathrm{~mol}, 16.7 \mathrm{~mol} \%$ to monomer) in dry $\mathrm{CH}_{2} \mathrm{Cl}_{2}(2.0 \mathrm{~mL})$ was placed in a polymerization tube under a nitrogen atmosphere. The resulting mixture was subjected to polymerization at $30^{\circ} \mathrm{C}$ for 16 h under nitrogen. After $\mathbf{B z S}_{\mathbf{L}}$ was completely consumed, a solution of $\mathbf{S}_{\mathbf{L}}(0.48 \mathrm{~g}, 3.0 \mathrm{mmol})$ and $\mathbf{B z S} \mathbf{S}_{\mathbf{L}}(0.53 \mathrm{~g}, 2.0 \mathrm{mmol})$ in $\mathrm{CH}_{2} \mathrm{Cl}_{2}(10 \mathrm{~mL})$ was added to the reactive solution. The
55 resulting mixture was stirred at $30^{\circ} \mathrm{C}$ for 4 d , quenched with methanol, and poured into ethyl ether to precipitate a polymer. The polymer was collected by filtration with suction and dried under vacuum. $\operatorname{Poly}\left(\mathbf{B z S}_{\mathbf{L}}-b-\left(\mathbf{S}_{\mathbf{L}}-c o-\mathbf{B z S}_{\mathbf{L}}\right)\right)$ was obtained as a colorless solid. Yield $=$ $95 \% \cdot[\alpha]_{\mathrm{D}}{ }^{30}=-159.7^{\circ}\left(c=0.1 \mathrm{~g} / \mathrm{dL}\right.$ in $\left.\mathrm{CH}_{2} \mathrm{Cl}_{2}\right) . T_{\mathrm{m}}=119.9^{\circ} \mathrm{C}(15.6 \mathrm{~mJ} / \mathrm{mg}) .{ }^{1} \mathrm{H} \mathrm{NMR}\left(\mathrm{CDCl}_{3}\right): \delta=2.33$ (initiating end, S-CH3$), 2.74-4.25$ $\left(4 \mathrm{H},-\mathrm{CH}_{2}-\right.$, and $\left.-\mathrm{CH}_{2}-\right), 3.73-3.79\left(6 \mathrm{H},-\mathrm{OCH}_{3}\right.$, and $\left.-\mathrm{OCH}_{3}\right), 4.40-5.74(2 \mathrm{H},>\mathrm{CH}-$, and $>\mathrm{CH}-), 7.27-7.77\left(5 \mathrm{H},-\mathrm{C}_{6} H_{5}\right), 7.80-8.55(1 \mathrm{H}$, $-\mathrm{NH}-) \mathrm{ppm} .{ }^{13} \mathrm{C}$ NMR $\left(\mathrm{CDCl}_{3}\right): \delta=30.87\left(-\mathrm{CH}_{2}-\right), 32.17\left(-\mathrm{CH}_{2}-\right), 52.24\left(-\mathrm{OCH}_{3}\right), 52.68\left(-\mathrm{OCH}_{3}\right), 54.25(-\mathrm{CH}<), 59.99(-\mathrm{CH}<), 128.45$,
$60129.47,133.80,134.92\left(-\mathrm{C}_{5} \mathrm{H}_{6}\right), 164.38(-\mathrm{SCONH}-), 168.35(-\mathrm{SCONH}-), 170.19\left(-\mathrm{NHCOC}_{5} \mathrm{H}_{6}\right), 171.16\left(-\mathrm{COOCH}_{3}\right), 172.18\left(-\mathrm{COOCH}_{3}\right)$ ppm. IR (KBr): 3313, 1747, 1693, 1649, 1302, 1252, $1205 \mathrm{~cm}^{-1}$.
Poly $\left(\mathrm{BzS}_{\mathrm{L}}-b-\left(\mathrm{S}_{\mathrm{D}}-c \boldsymbol{c}-\mathrm{BzS}_{\mathrm{L}}\right)\right):$ Yield $=98 \% \cdot[\alpha]_{\mathrm{D}}{ }^{30}=-196.5^{\circ}\left(c=0.1 \mathrm{~g} / \mathrm{dL}^{\circ}\right.$ in $\left.\mathrm{CH}_{2} \mathrm{Cl}_{2}\right) . T_{\mathrm{m}}=147.1^{\circ} \mathrm{C}(39.6 \mathrm{~mJ} / \mathrm{mg}) .{ }^{1} \mathrm{H}$ NMR $\left(\mathrm{CDCl}_{3}\right): \delta=$ 2.33 (initiating end, $\left.\mathrm{S}-\mathrm{CH}_{3}\right)$, 2.61-4.27 ( $4 \mathrm{H},-\mathrm{CH}_{2}-$, and $\left.-\mathrm{CH}_{2}-\right), 3.74-3.79\left(6 \mathrm{H},-\mathrm{OCH}_{3}\right.$, and $\left.-\mathrm{OCH}_{3}\right), 4.26-5.90(2 \mathrm{H},>\mathrm{CH}-$, and $>\mathrm{CH}-)$, 7.38-7.94 (5H, $\left.-\mathrm{C}_{6} H_{5}\right), 8.00-8.55(1 \mathrm{H},-\mathrm{NH}-) \mathrm{ppm} .{ }^{13} \mathrm{C}$ NMR $\left(\mathrm{CDCl}_{3}\right): \delta=30.58\left(-\mathrm{CH}_{2}-\right), 32.13\left(-\mathrm{CH}_{2}-\right), 52.22\left(-\mathrm{OCH}_{3}\right), 52.61\left(-\mathrm{OCH}_{3}\right)$, $6554.20(-\mathrm{CH}<), 59.92(-\mathrm{CH}<), 128.45,129.47,132.25,133.77\left(-C_{5} \mathrm{H}_{6}\right), 166.50(-\mathrm{SCONH}-), 168.30(-\mathrm{SCONH}-), 170.13\left(-\mathrm{NHCOC}_{5} \mathrm{H}_{6}\right)$, $171.20\left(-\mathrm{COOCH}_{3}\right), 172.11\left(-\mathrm{COOCH}_{3}\right) \mathrm{ppm}$. IR (KBr): 3303, 1743, 1692, 1657, 1512, 1445, 1295, 1247, $1206 \mathrm{~cm}^{-1}$.


Fig. 1S ${ }^{1} \mathrm{H}$ NMR spectra $\left(\mathrm{CDCl}_{3}\right)$ of poly $\left(\mathbf{S}_{\mathbf{L 5 1}}-\mathrm{co}-\mathbf{B z S}_{\mathbf{L} 49}\right)$.

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70 Fig. 2S CD spectra of (a) poly $\left(\mathbf{S}_{\mathbf{L}}\right)\left(M_{\mathrm{n}}=3300, M_{\mathrm{w}} / M_{\mathrm{n}}=1.14\right)$, (b) $\operatorname{poly}\left(\mathbf{S}_{\mathbf{D}}\right)\left(M_{\mathrm{n}}=3500, M_{\mathrm{w}} / M_{\mathrm{n}}=1.14\right)$, and (c) $\operatorname{poly}\left(\mathbf{B z S}_{\mathbf{L}}\right)$ $\left(M_{\mathrm{n}}=3500, M_{\mathrm{w}} / M_{\mathrm{n}}=1.19\right)$.


Fig. 3S The observed Cotton effect curves (1) and linearly combined presumable Cotton effect curves (2) of the obtained 75 copolymers [(a) poly $\left(\mathbf{S}_{\mathbf{L} 91}-\mathrm{CO}-\mathrm{BzS}_{\mathbf{L} 9}\right)$, (b) $\operatorname{poly}\left(\mathbf{S}_{\mathbf{L} 74}-\mathrm{CO}-\mathrm{BzS}_{\mathbf{L 2 6}}\right)$, (c) $\operatorname{poly}\left(\mathbf{S}_{\mathbf{L 5 1}}-\mathrm{Co}-\mathrm{BzS}_{\mathbf{L 4 9}}\right)$, (d) $\operatorname{poly}\left(\mathbf{S}_{\mathbf{L 1 6}}-\mathrm{Co}-\mathrm{BzS}_{\mathbf{L 8 4}}\right)$, and (e) $\left.\operatorname{poly}\left(\mathbf{S}_{\mathbf{L} 7-c o-}-\mathbf{B z S}_{\mathbf{L} 93}\right)\right]$.

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Fig. 4S The observed Cotton effects curves (1) and linearly combined presumable Cotton effect curves (2) of the obtained 80 block copolymers [(a) poly $\left(\mathbf{S}_{\mathbf{L} 53}-b-\mathbf{B z S}_{\mathbf{L} 47}\right)$ and (b) $\operatorname{poly}\left(\mathbf{S}_{\mathbf{D} 50}-b-\mathbf{B z S}_{\mathbf{L} 50}\right)$ ].



Fig. 5S Synthesis of block copolymers poly $\left(\mathbf{B z S}_{\mathbf{L}}-b-\left(\mathbf{S}_{\mathbf{D}}-c o-\mathbf{B z S}_{\mathbf{L}}\right)\right)$ and $\operatorname{poly}\left(\mathbf{B z S}_{\mathbf{L}}-b-\left(\mathbf{S}_{\mathbf{L}}-c o-\mathbf{B z S}_{\mathbf{L}}\right)\right)$.

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Fig. 6S DSC traces of (a) poly $\left(\mathbf{B z S}_{\mathbf{L}}-b-\left(\mathbf{S}_{\mathbf{D}}-c o-\mathbf{B z S}_{\mathbf{L}}\right)\right)$ and (b) $\operatorname{poly}\left(\mathbf{B z S}_{\mathbf{L}}-b-\left(\mathbf{S}_{\mathbf{L}}-c o-\mathbf{B z S}_{\mathbf{L}}\right)\right)$.

