Supporting Information

Chemically anchored Liquid-PEO based Block Copolymer Electrolytes for Solid-State Lithium-Ion Batteries

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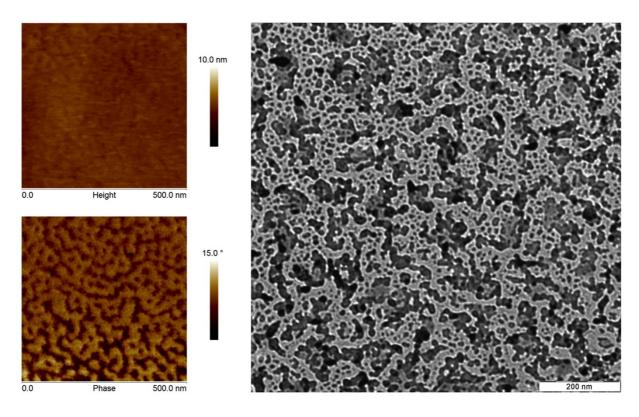


Figure S1. (left) Atomic force microscopy analysis of the PS-*b*-POEG₉MA electrolyte (topography and phase contrast) revealing the microstructural segregation. (right) TEM inspection is consistent with AFM images.

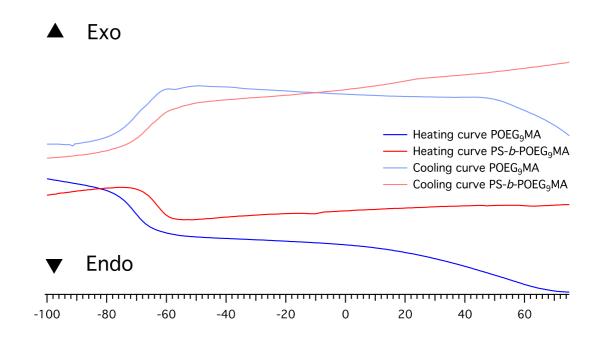


Figure S2. DSC cooling and heating diagrams for PS_{96} -b- $POEG_{9}MA_{84}$ and $POEG_{9}MA_{88}$ at a rate of 5°C/min.

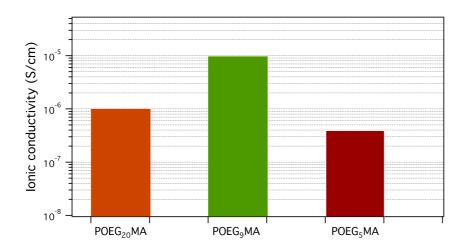


Figure S3. Ionic conductivity of $POEG_{5,9,20}MA$ homopolymers doped with 30:1 equivalents of $LiClO_4$.

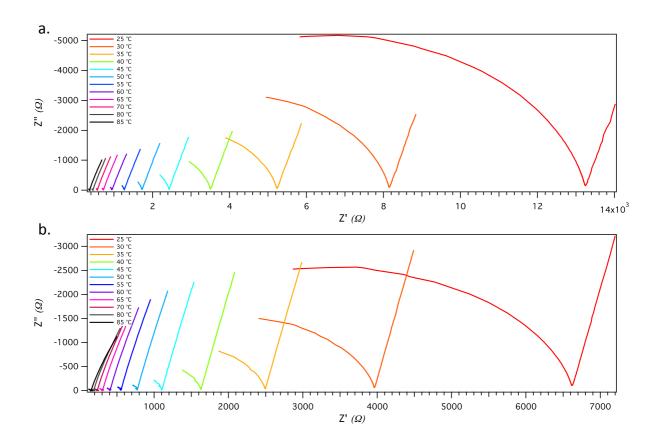


Figure S4. Nyquist plots of (a) PS-*b*-POEG₉MA and (b) POEG₉MA in a temperature range of 25 °C to 85°C.