

Supporting Information

Synthesis of Hard–Soft–Hard Triblock Copolymers, Poly(2-naphthyl glycidyl ether)-*block*-poly[2-(2-(2-methoxyethoxy)ethoxy)ethyl glycidyl ether]-*block*-poly(2-naphthyl glycidyl ether), for Solid Electrolytes

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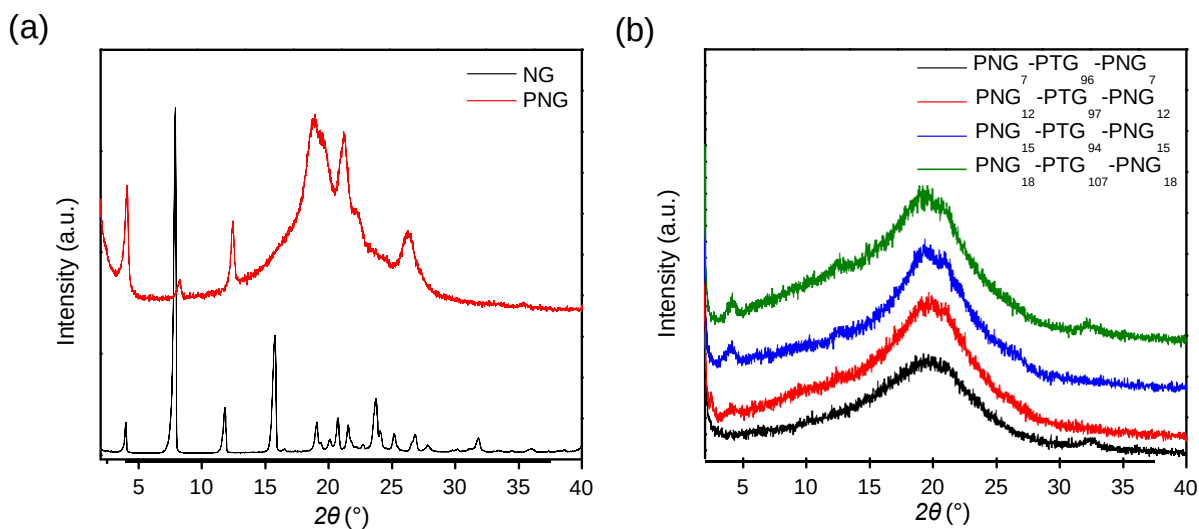


Figure S1. (a) WAXS profiles of NG, PNG and (b) PNG-PTG-PNGs ($f_{\text{wt,PNG}} = 9.2, 16.7, 22.7$ and 28.6 wt%).

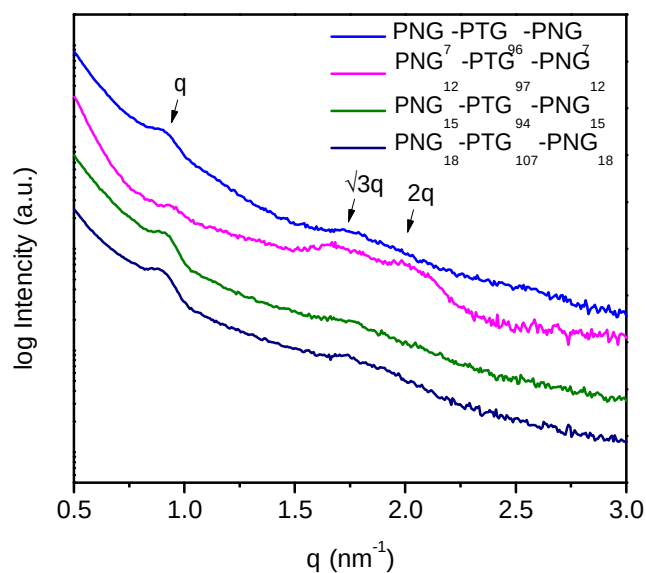


Figure S2. SAXS profiles of PNG-PTG-PNGs ($f_{\text{wt,PNG}} = 9.2, 16.7, 22.7$ and 28.6 wt%) mixed with LiTFSI ([Li]/[O]=0.05) in bulk.

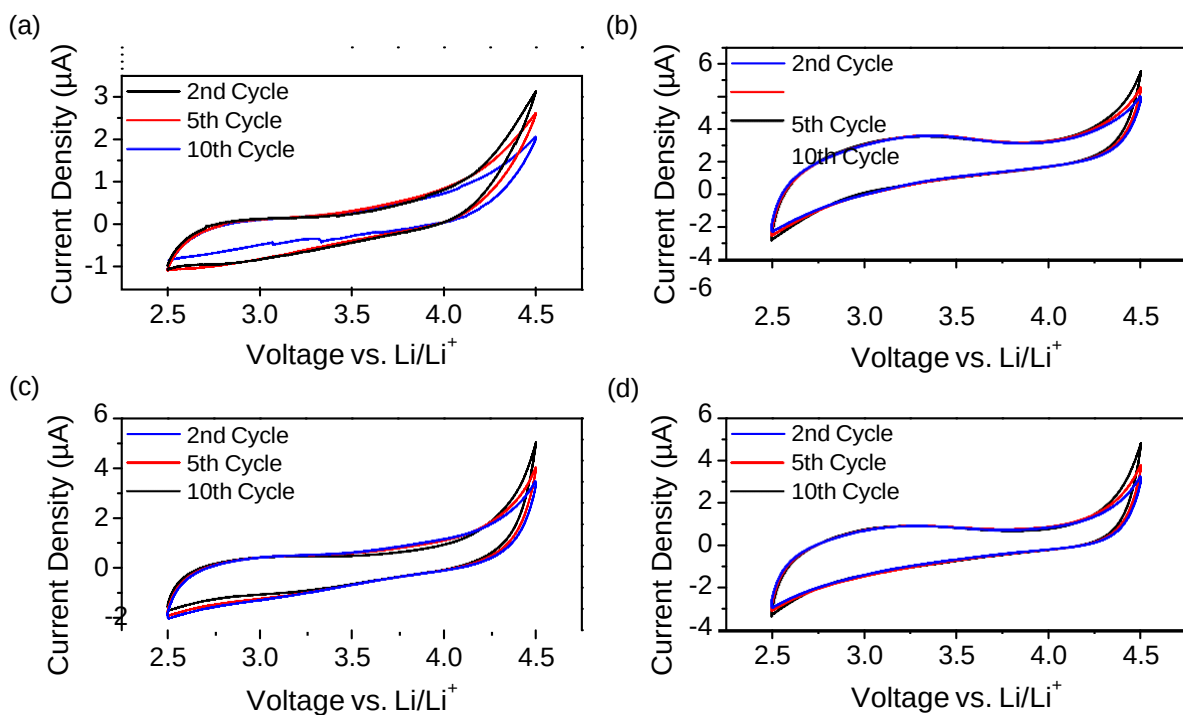


Figure S3. Cyclic voltammograms of stainless steel and lithium metal electrodes in (a) PNG₇-PTG₉₆-PNG₇ ($f_{\text{wt,PNG}} = 9.2 \text{ wt\%}$), (b) PNG₁₂-PTG₉₇-PNG₁₂ ($f_{\text{wt,PNG}} = 16.7 \text{ wt\%}$), (c) PNG₁₅-PTG₉₄-PNG₁₅ ($f_{\text{wt,PNG}} = 22.7 \text{ wt\%}$) and (d) PNG₁₈-PTG₁₀₇-PNG₁₈ ($f_{\text{wt,PNG}} = 28.6 \text{ wt\%}$) electrolytes containing LiTFSI (30 wt%, approximately $[\text{Li}]/[\text{EO}] = 0.05$) at 25 °C with scan speed 10 mV/s.