

SUPPORTING INFORMATION

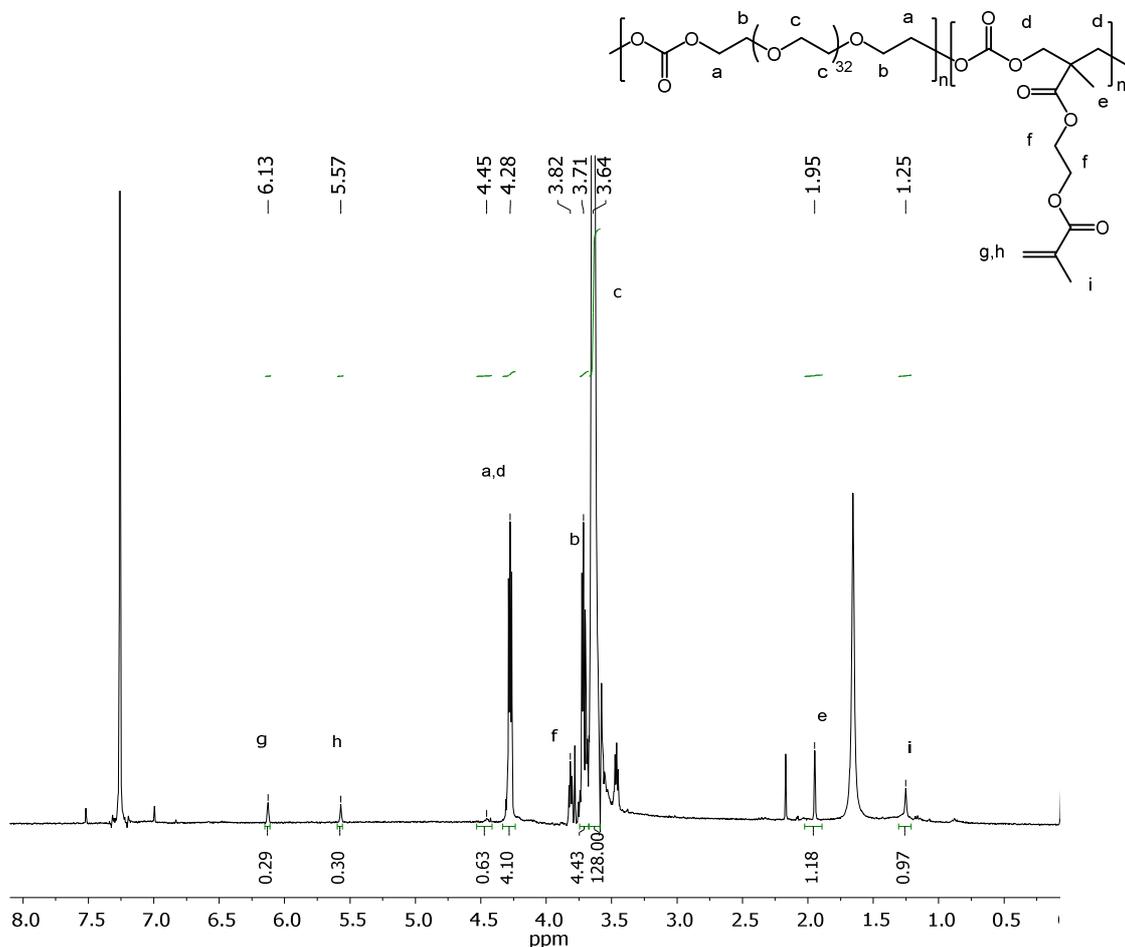


Figure S1. ¹H NMR of PEO₃₄-PC 10 wt% MA

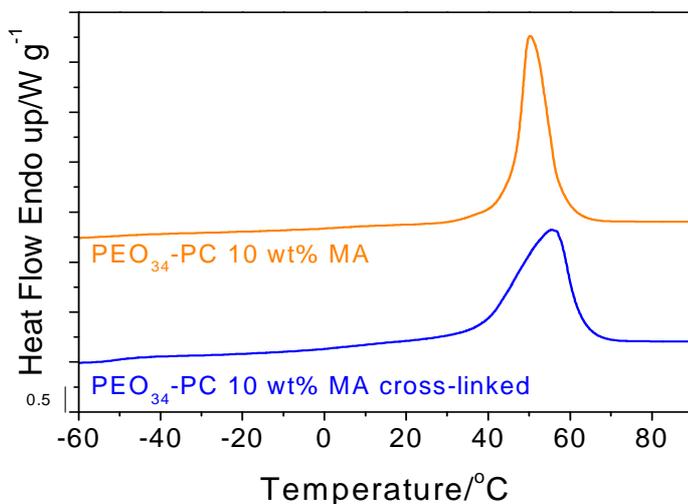


Figure S2. DSC traces of non-cross-linked and cross-linked PEO₃₄-PC 10 wt% MA during the second heating scan at 20 K min⁻¹.

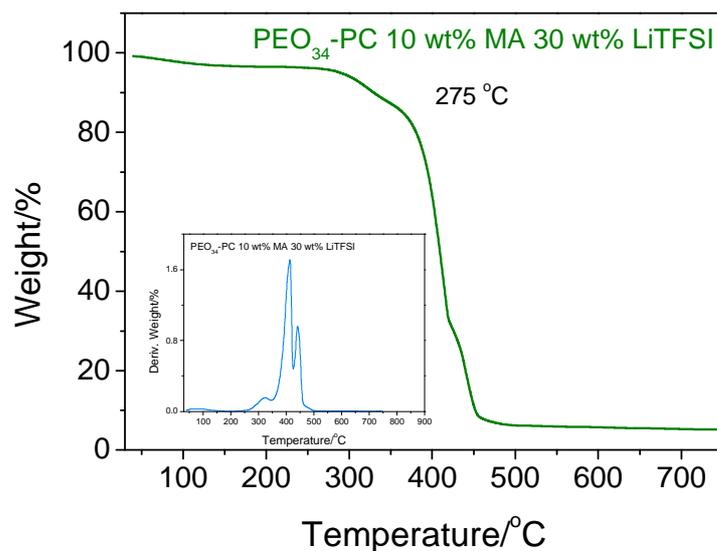


Figure S3. Thermogravimetric analysis of cross-linked PEO₃₄-PC 10 wt% MA containing 30 wt% LiTFSI.

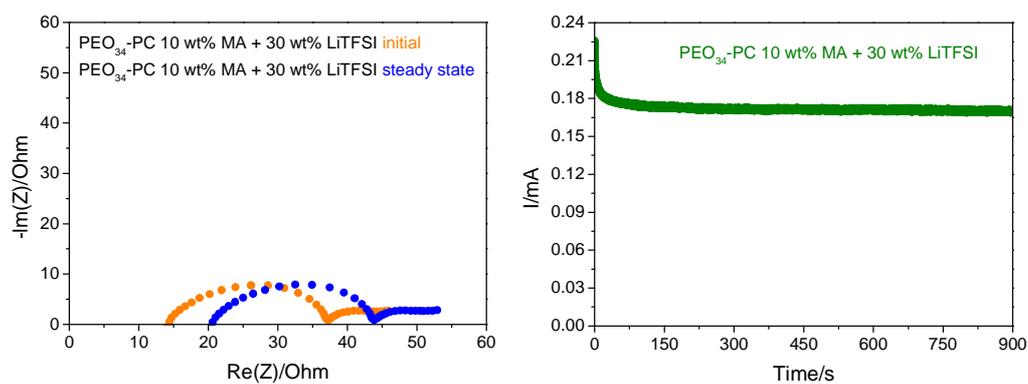


Figure S4. Lithium transference number analysis at 70 °C. Impedance spectroscopy and chronoamperometry analysis for PEO₃₄-PC 10 wt% MA containing 30 wt% LiTFSI.