

Supporting Information

Novel polysilsesquioxane hybrid polymer electrolytes for lithium ion batteries

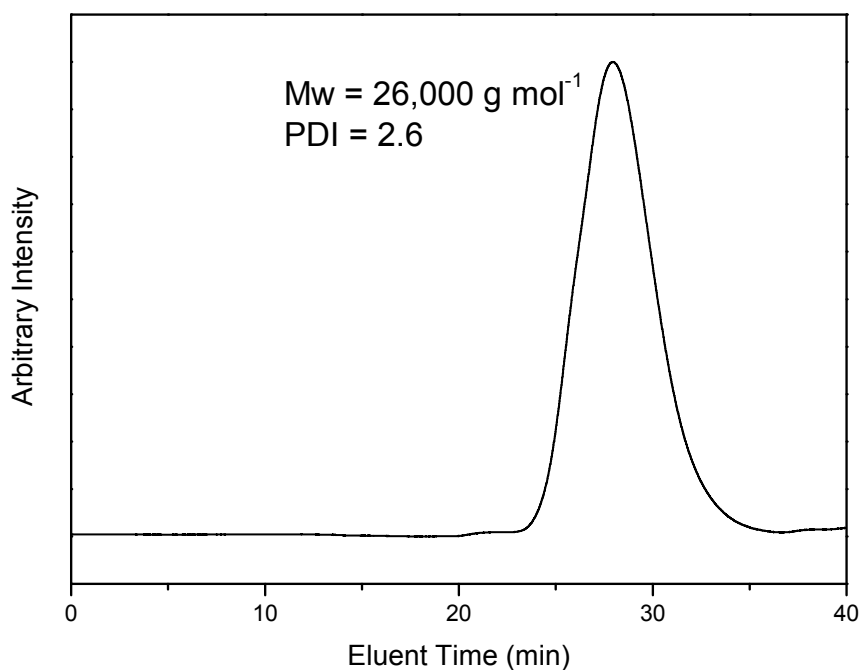
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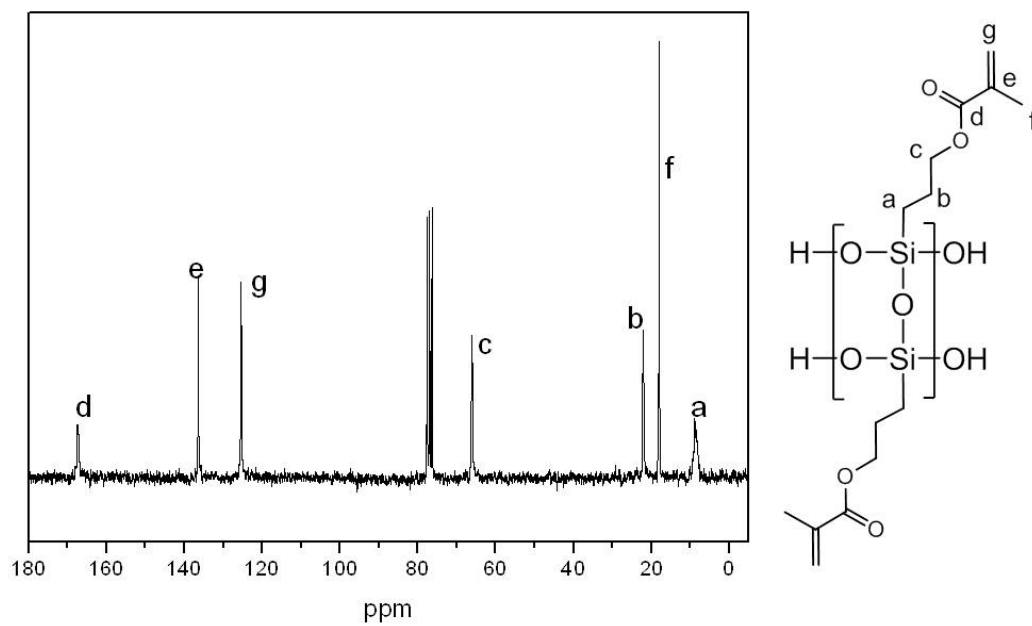
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Supporting Figure S1



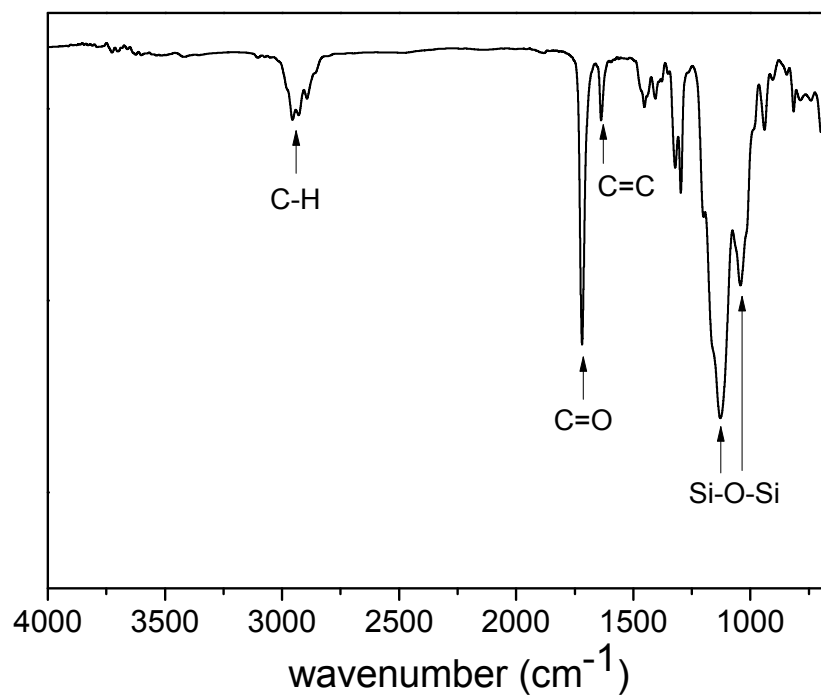
GPC Curve of LPMASQ (THF Eluent, PS Standards)

Supporting Figure S2



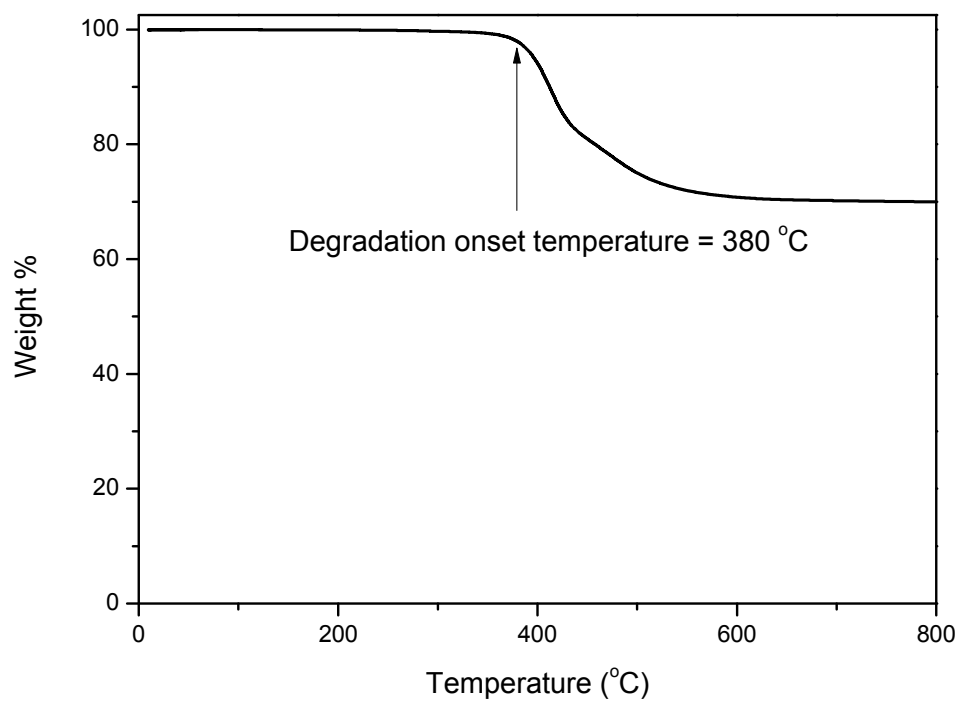
^{13}C NMR Spectrum of LPMASQ (in CDCl_3)

Supporting Figure S3



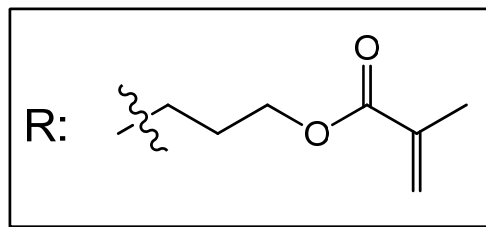
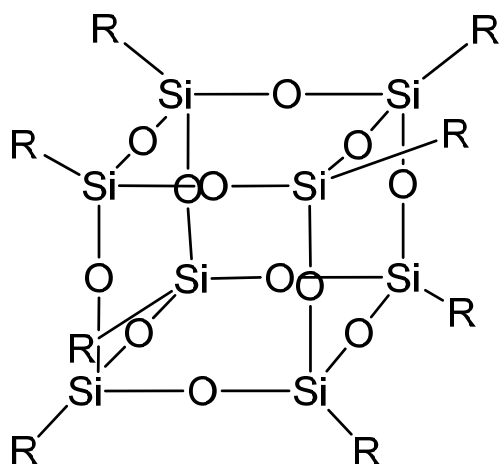
FT-IR Spectrum for LPMASQ

Supporting Figure S4



TGA Thermogram of LPMASQ (under N₂, heating rate= 10 °C/min)

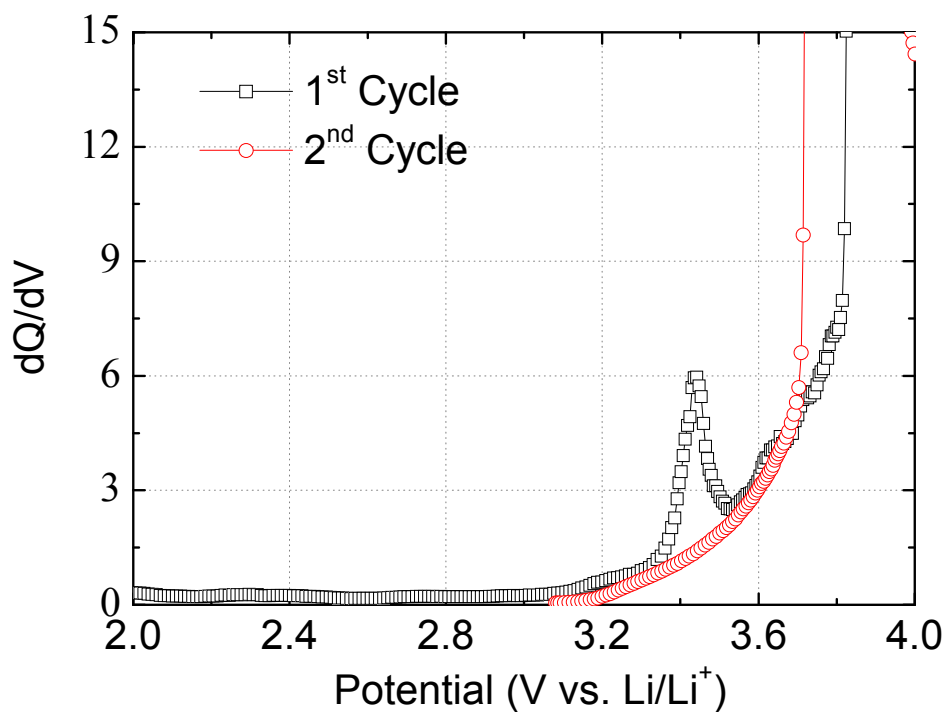
Supporting Figure S5



T8-MMA-POSS

Commercially available T8-Methacrylate-substituted POSS (T8-MMA-POSS) was found to be insoluble in EC/DEC 3/7 (v/v) solution.

Supporting Figure S6



The differential capacity (dQ/dV) plot for the cell fabricated with 2 wt % LPMSAQ at 1st and 2nd cycle, where Q = capacity and V= potential.