Supplementary Information for

Enhanced Polymeric Lithography Resists via Sequential Infiltration Synthesis Yu-Chih Tseng, Qing Peng, Leonidas E. Ocola, David A. Czaplewski, Jeffrey W. Elam and Seth B. Darling

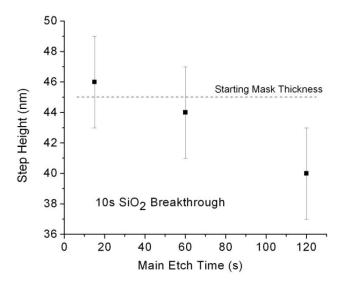


Figure S1: Step height of a 500 nm line/space pattern in SIS-PMMA as a function of the time of silicon main etching step. A 10 s SiO₂ breakthrough step was applied prior to silicon etching.

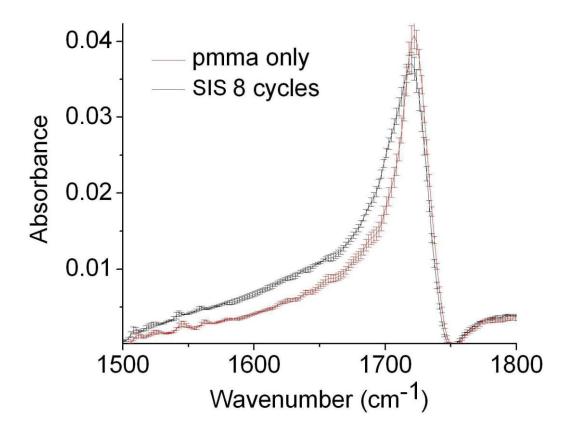


Figure S2: FTIR absorption measurements of PMMA before and after SIS (8 cycles). Absorbance peak corresponding to the C=O bond (1720 cm⁻¹). The carbonyl vibration is influenced by selective interaction with TMA molecules.