Electronic Supplementary Material (ESI) for Green Chemistry.

Tailor-made Thermoreversible Functional Polymer via RAFT Polymerization in an Ionic Liquid: A Remarkably Fast Polymerization Process

Nikhil K. Singha,[*,#,†] Nabendu B. Pramanik,[#,†] Prasanta K. Behera,[#] Arindam Chakrabarty,[#] Jimmy W. Mays[$]

[#] Rubber Technology Centre, Indian Institute of Technology Kharagpur, Kharagpur- 721302, West Bengal, India
[$]Department of Chemistry, University of Tennessee, 552 Buehler Hall, Knoxville, TN 37996, USA

Supporting Information

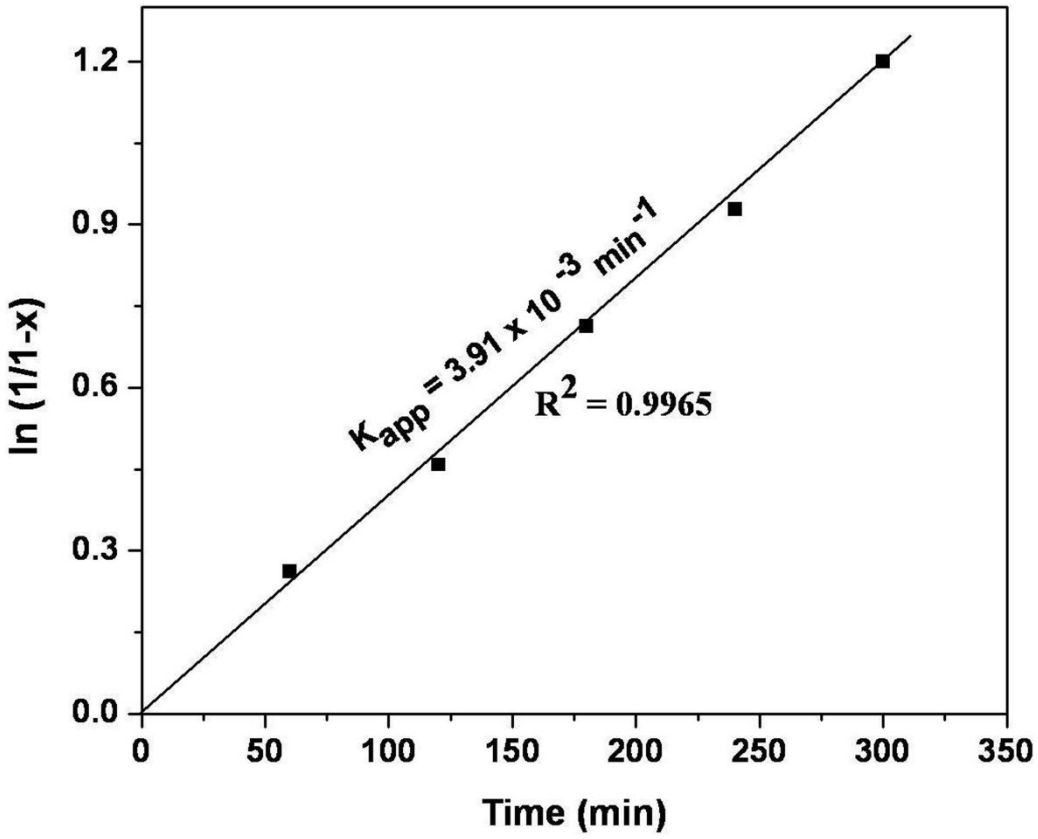

Figure S1. RAFT polymerization of FMA in toluene as solvent at 70 °C using CPDTC as RAFT agent.

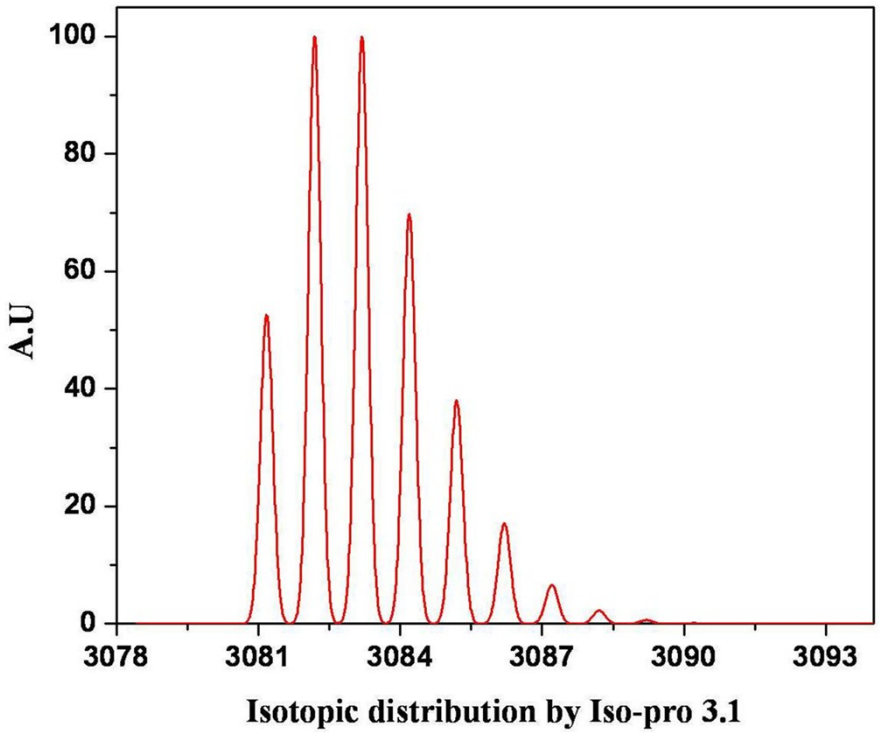

Figure S2. Amplified MALDI Peak at 3083 with the isotopic distribution simulated by Isopro 3.1.

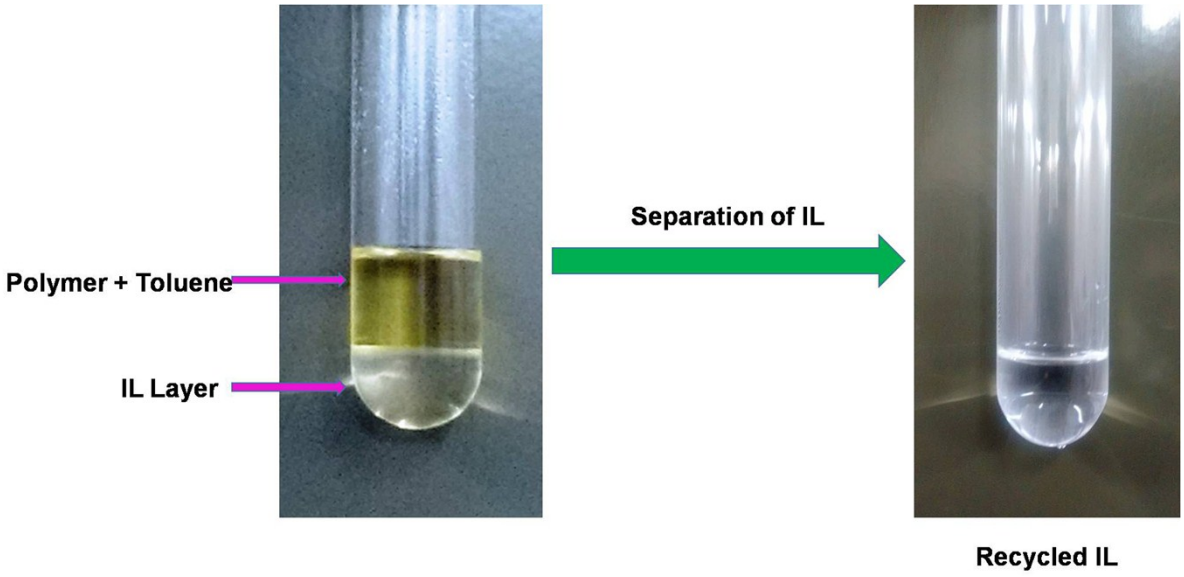

Figure S3. Separation of IL from the polymer mixture using toluene as solvent.

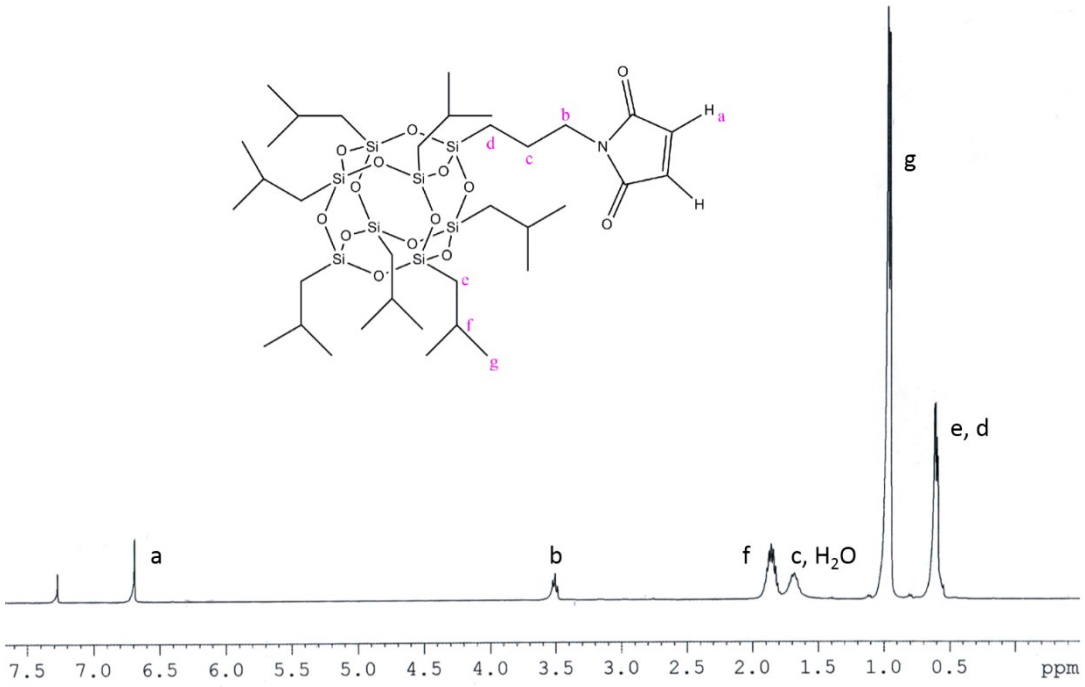

Figure S4 (a). ^{1}H-NMR of POSS-M.

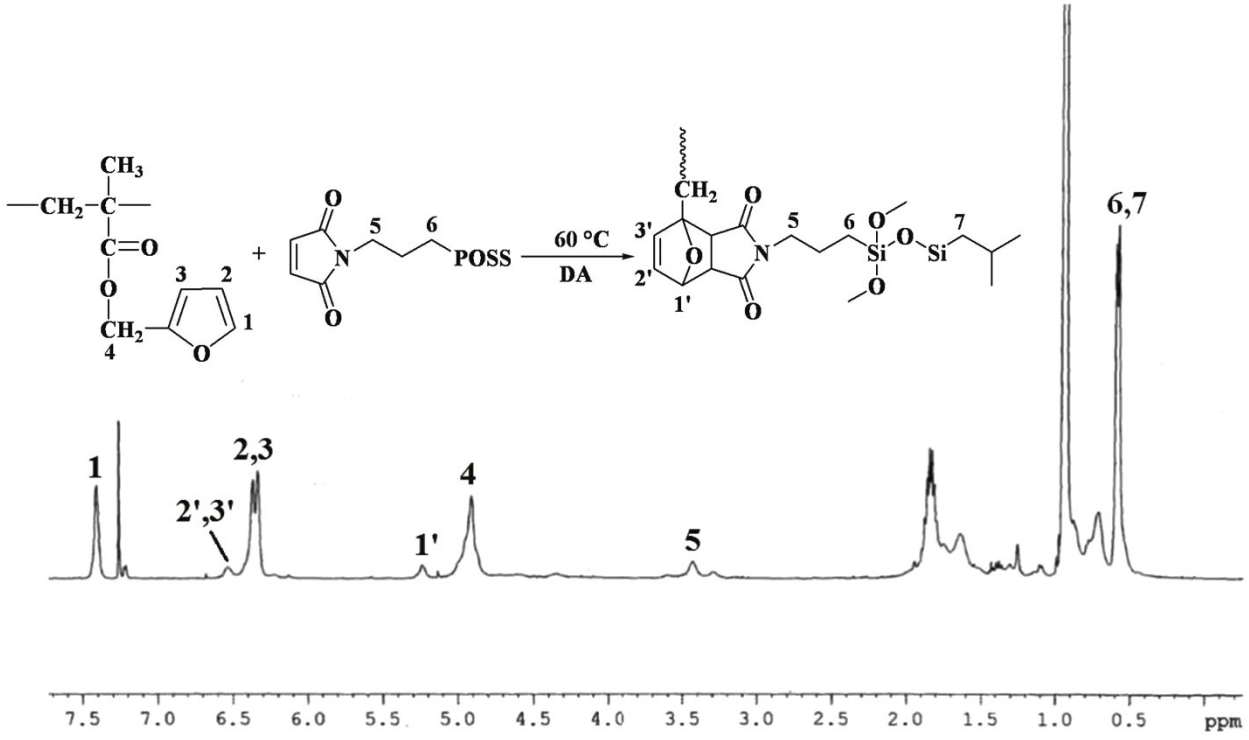

Figure S4 (b). ^{1}H-NMR of the DA adduct between PFMA and POSS-M.