

Photo-Crosslinked Diels-Alder and Thiol-ene Polymer Networks

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Supporting Information

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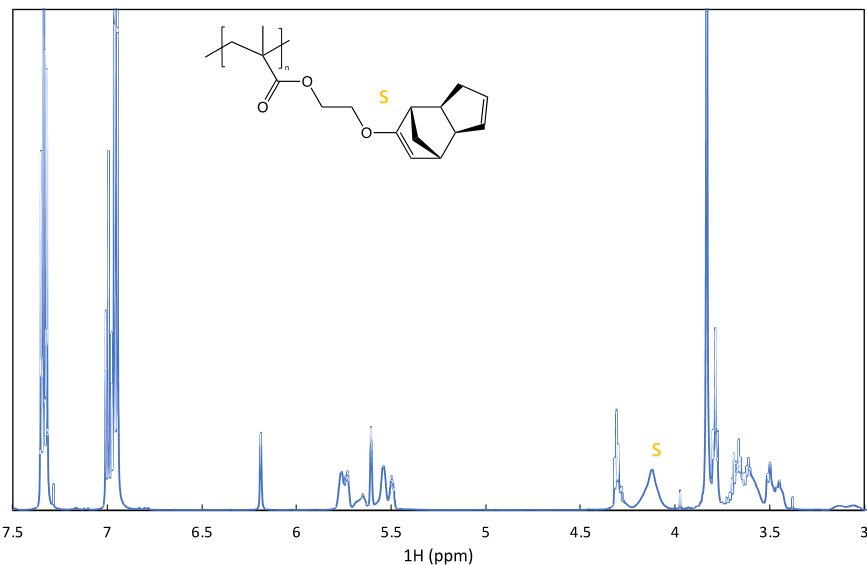


Figure S1. ^1H NMR traces of poly(EGDEMA) synthesized by ICAR ATRP: 6.18-6.22 & 5.58-5.60 (m, 1H, $-\text{CH}=\text{CH}-$, EGDEMA monomer) & 4.06-4.17, (s, 2H, $\text{O}-\text{CH}_2-\text{C}=\text{C}$, EGDEMA polymer).

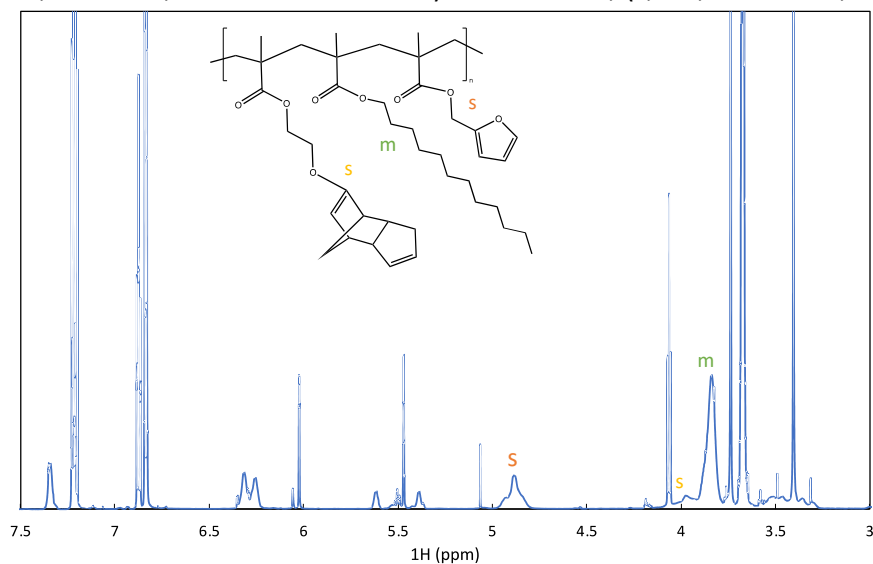


Figure S2. ^1H NMR traces of Ter3: poly(EGDEMA-co-FMA-co-C13MA) synthesized by ICAR ATRP: 7.36-7.48(m, H, $-\text{CH}=\text{CH}-$, FMA monomer), 6.12-6.16 & 5.58-5.60 (m, 1H, $-\text{CH}=\text{CH}-$, EGDEMA monomer) & 6.05-6.12 & 5.51-5.56(d, 2H, $-\text{CH}_2-\text{CH}=\text{C}-$, C13MA monomer), 4.80-5.15(s, 2H, $\text{O}-\text{CH}_2-\text{C}=\text{C}$, FMA polymer), 4.06-4.17, (s, 2H, $\text{O}-\text{CH}_2-\text{C}=\text{C}$, EGDEMA polymer), 3.8-4.09(m, 2H, $-\text{CH}_2-$, C13MA polymer).

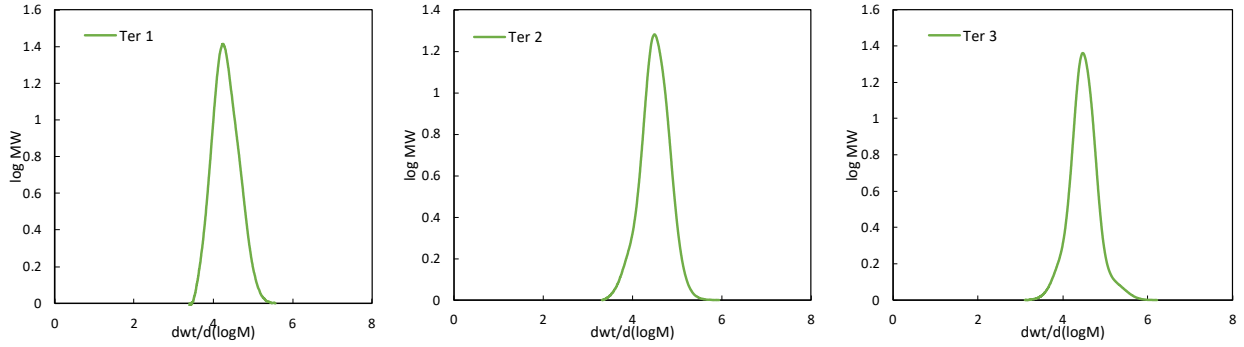


Figure S3. GPC traces for Ter1, Ter2 and Ter3.

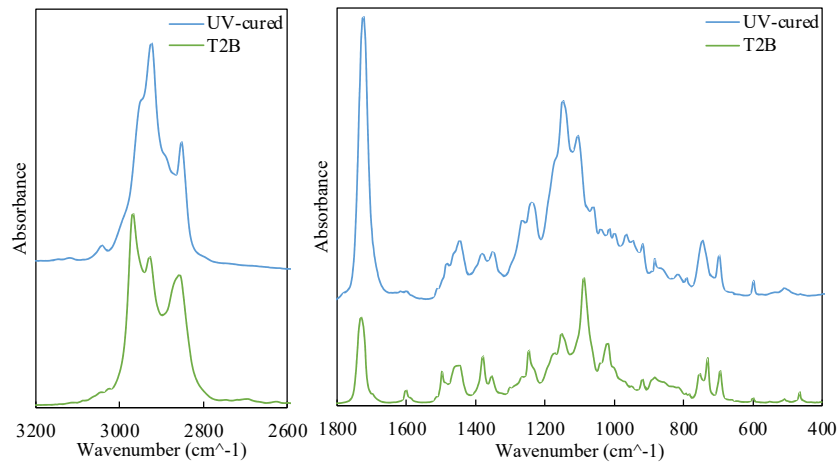


Figure S4. FTIR traces for crosslinked Ter2 sample with dual curing and BM:FMA loadings of 0.1 and TC:EGDEMA loading of 0.1.

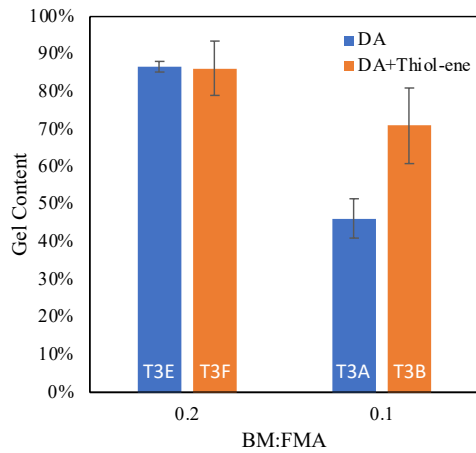


Figure S5. Gel content chart for UV-cured crosslinked Ter3 samples with single and dual curing and BM:FMA loadings of 0.1 and 0.2

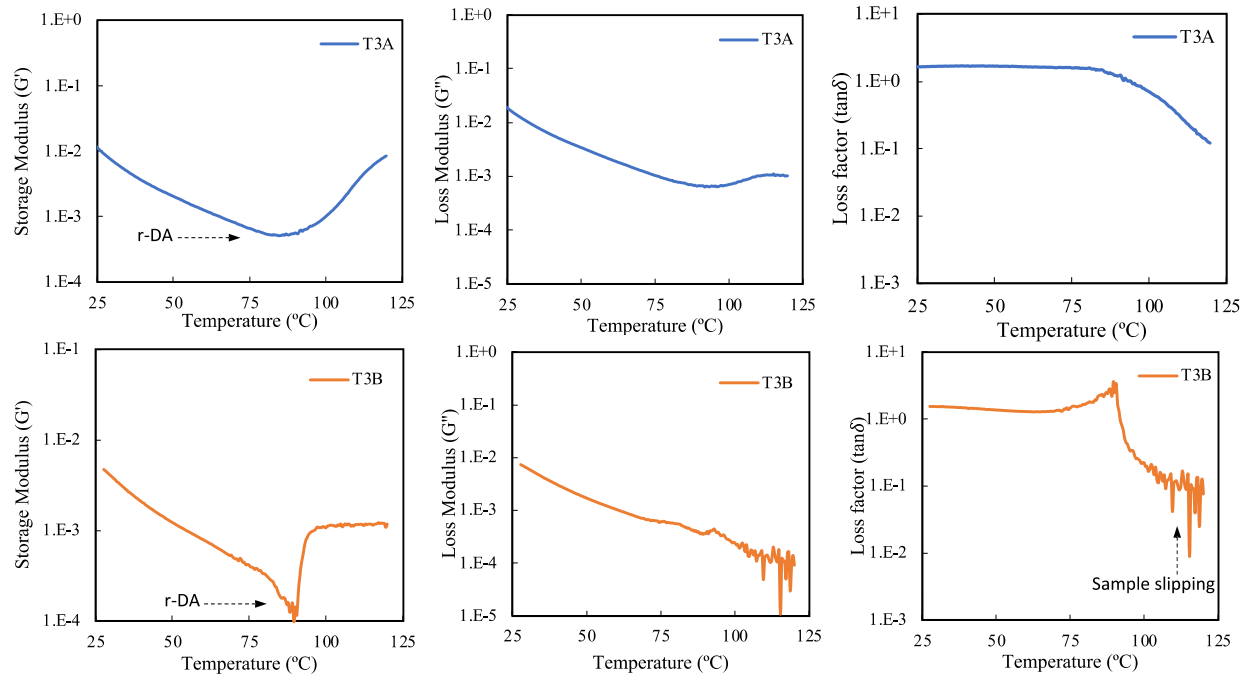


Figure S6. DMA test results for heating of single and dual crosslinked samples, T3A and T3B respectively, with BM:FMA ratio of 0.1; the reported values for G' G'' are in Pa.