Supplementary Data

Exploring the Versatility of Hydrogels Derived from Living Organocatalytic Ring-Opening Polymerization

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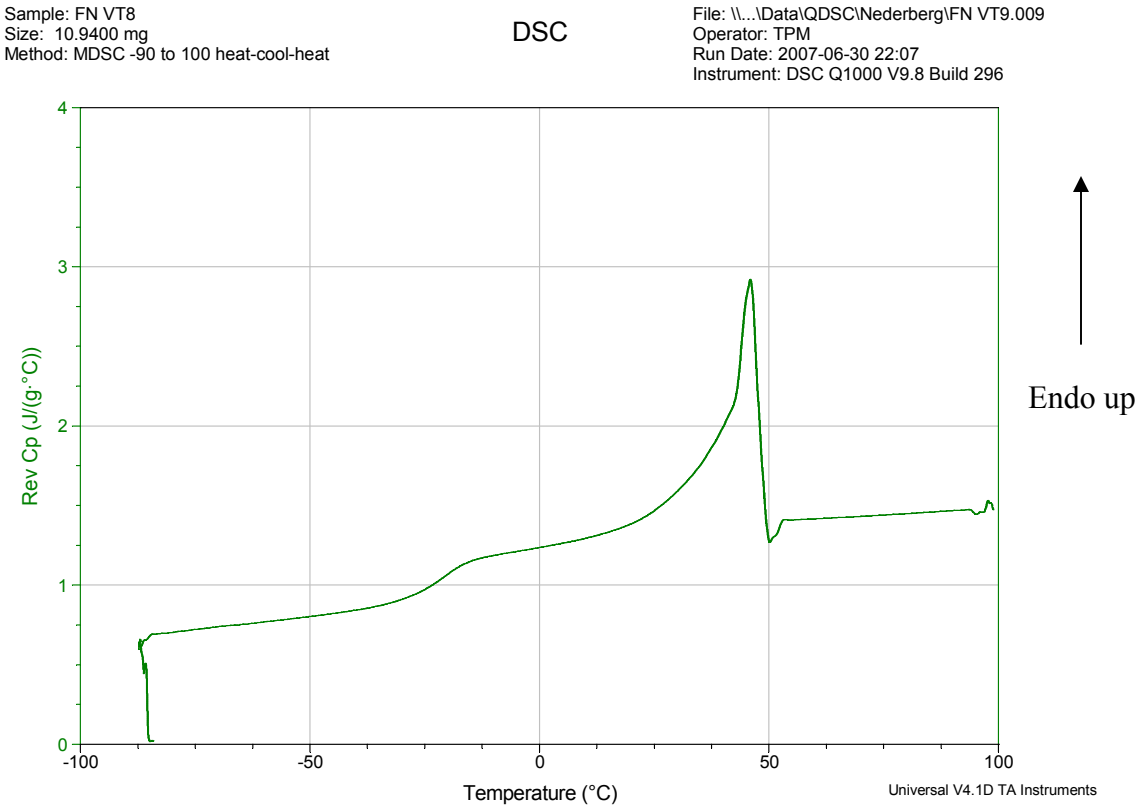


Figure S1. DSC curve of hydrogel added 50 eq of TMC. The melting of PEG is observed at ~45°C and the glass transition T_g of PTMC at ~ -20°C.

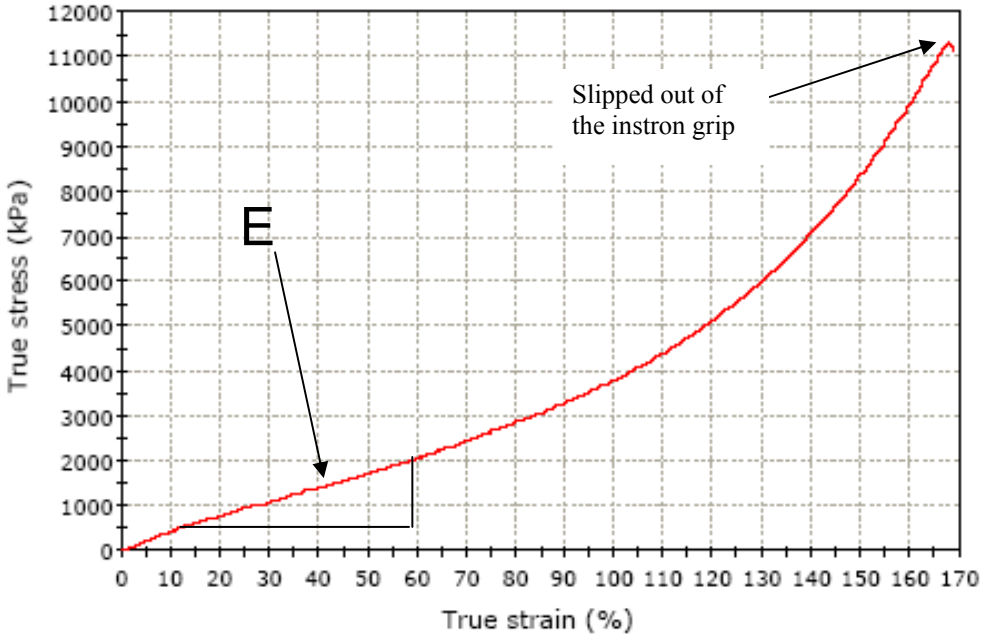


Figure S2. Stress-strain curve from 1:1 (PEG:PCL) co-macro monomer hydrogel, E-modules ~4.5MPa and strain ~ 170% at point of release from grip.

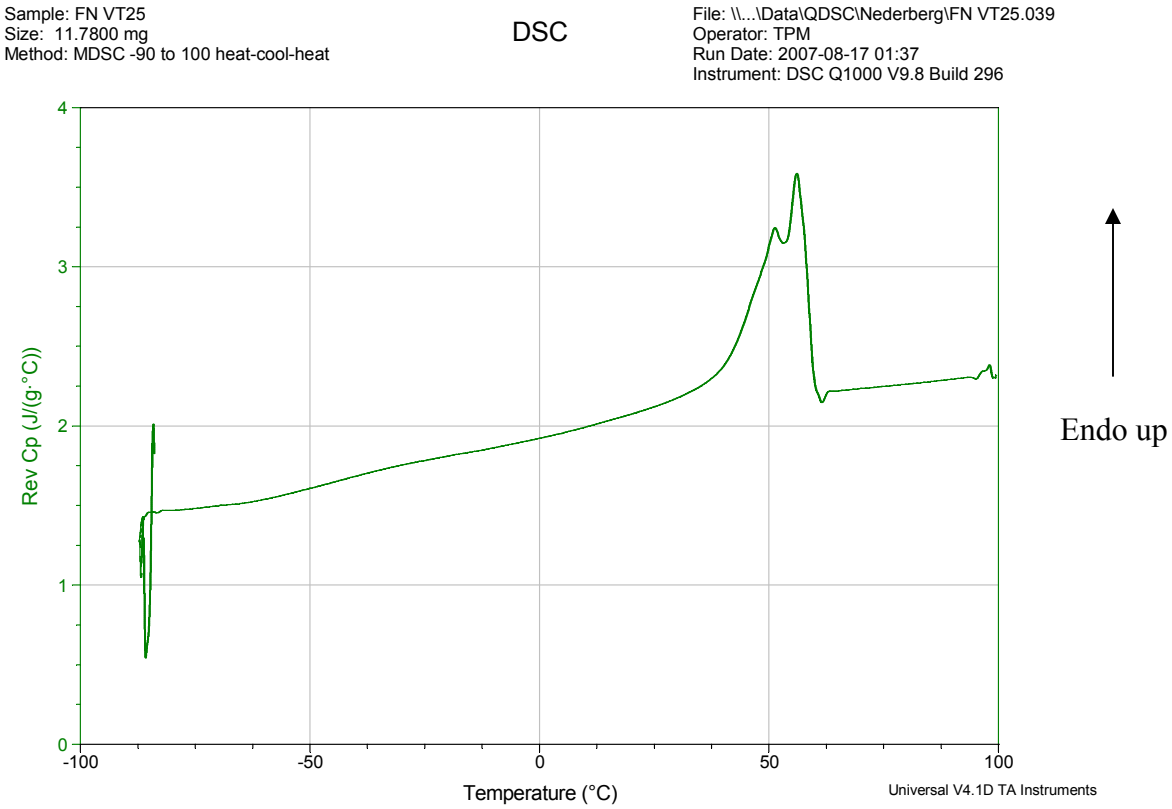
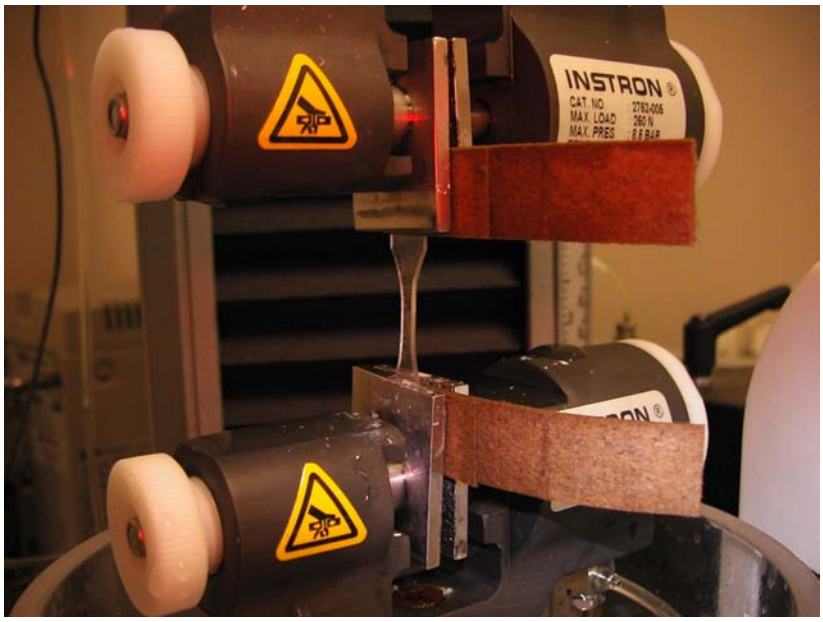
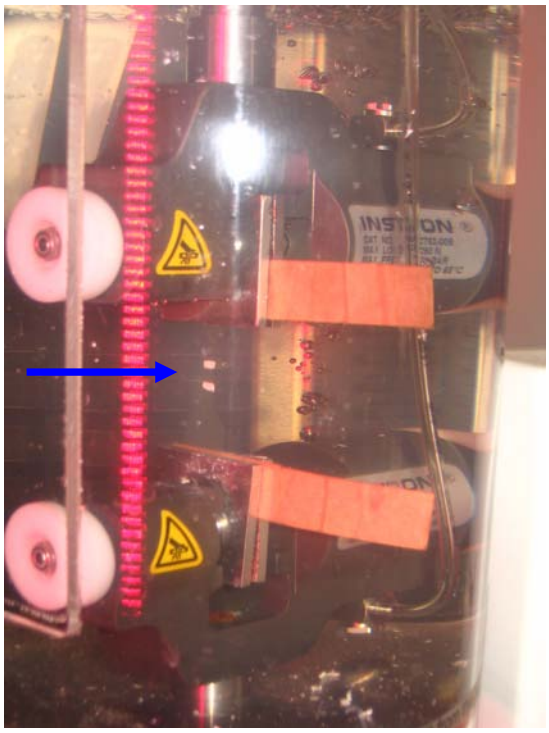
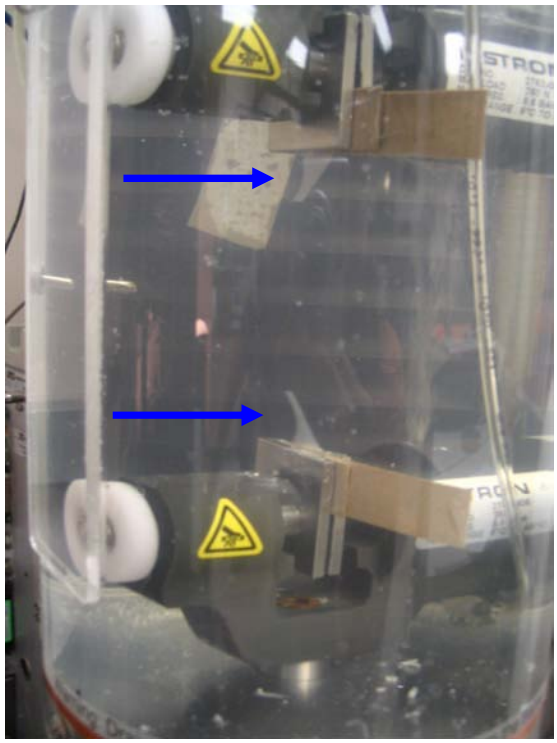


Figure S3. DSC curve of PCL:PEG co-macro monomer hydrogel. The melting of PEG and PCL is observed at ~ 50°C and ~ 60°C respectively, and glass transition temperature of PCL at ~ -55°C.



PNIPAAm cogel 25°C
Before water bath





PNIPAAm cogel 25°C

PNIPAAm cogel 37°C

= help arrow

Figure S4. Pictures of PNIPAAm co-hydrogels; prior introduction of water (top), below LCST and still intact at 25°C (below left) and above LCST and broken at 37°C (below right).

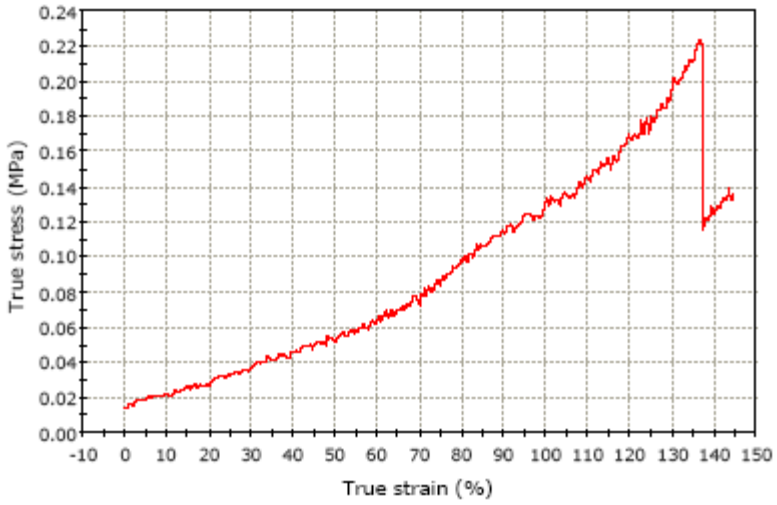


Figure S5. Stress-strain curve from typical PEG:P(MTC-pentylphenylurea) semi-interpenetrating network (SIPN).