Dynamic Poly(Hindered Urea) Hybrid Network Materials Crosslinked with Reactive Methacrylate Polymer

Twinkal Patel,[#] Junyoung Park,[§] Minsoo P. Kim,^{\$&} Zhibin Ye,[@] Hyunhyub Ko,^{\$} Hyun Wook Jung,[§] Jung Kwon Oh[#]*

Department of Chemistry and Biochemistry, Concordia University, Montreal, Quebec, Canada H4B 1R6

 δ Department of Chemical and Biological Engineering, Korea University, Seoul 02841, Republic of Korea

& Department of Chemical Engineering, Sunchon National University, Suncheon 57922, Republic of Korea

\$ School of Energy and Chemical Engineering, Ulsan National Institute of Science and Technology (UNIST), Ulsan 44919, Republic of Korea

@ Department of Chemical and Materials Engineering, Concordia University, Montreal, Quebec H4B 1R6, Canada

Email: john.oh@concordia.ca



Figure S1. ¹H NMR spectrum of PTBAEMA (PM).

Figure S2. GPC trace of PTBAEMA (PM).





Figure S3. DSC thermograms of PM-PHU-A (a) and PM-PHU-B (b).

Figure S4. AFM height images of of 2 x 2 μ m (a, c) and 5 x 5 μ m (b, d) acquired in a tapping mode for PM-PHU-A (a, b) and PM-PHU-B (c, d). Films were prepared by spin casting on glass slips mounted to metal pucks and dried at room temperature.



Figure S5. Viscoelastic properties as storage (G') modulus and tan δ measured using rheometer over a temperature range at 0 - 80 °C.



Figure S6. Digital images to describe the fabrication of reprocessed films of PM-PHU network materials.

