

# Thermal and UV curable formulations of poly(propylene glycol)-poly(hydroxyurethane) elastomers towards nozzle-based 3D photoprinting

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## **Supporting Information**

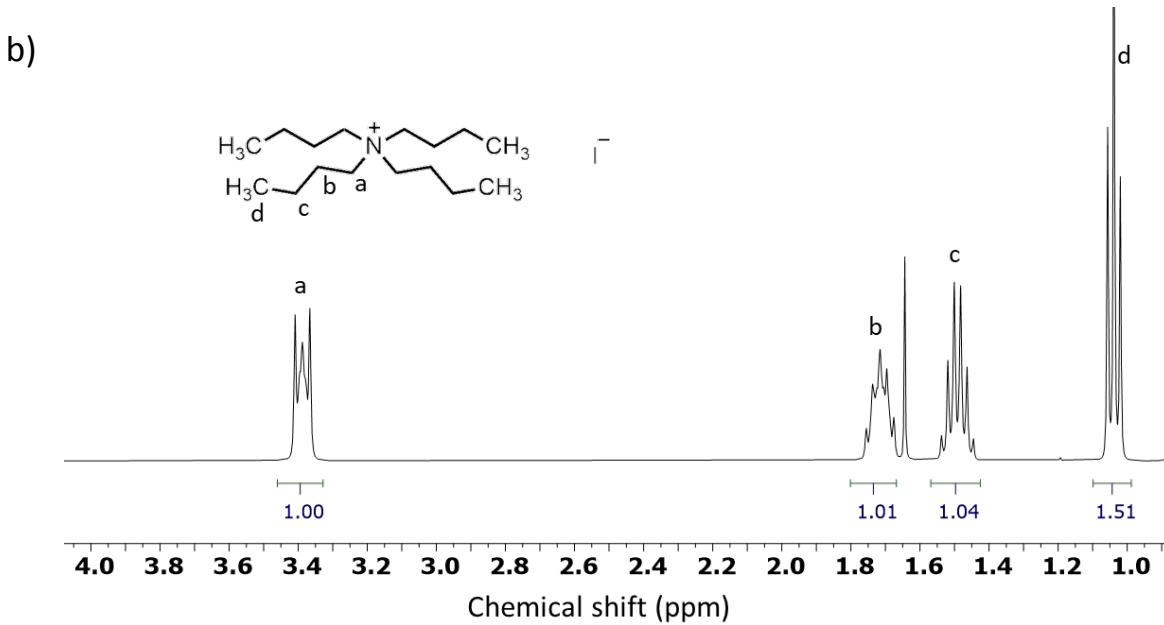
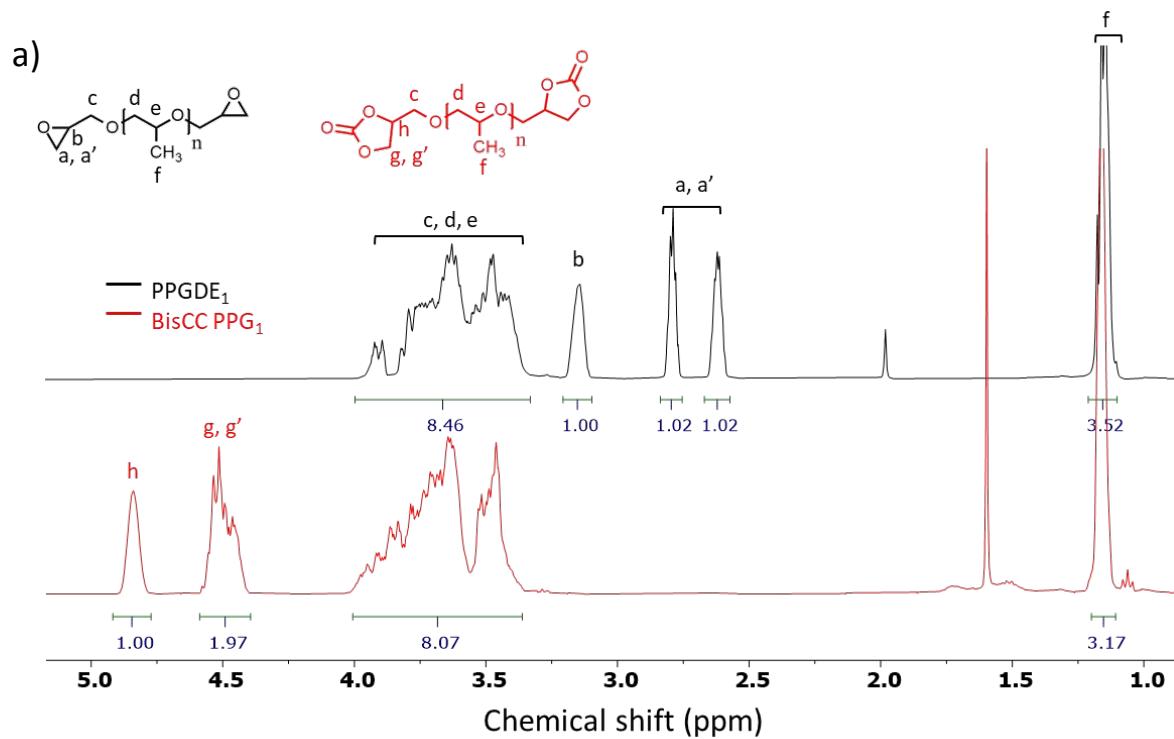


Figure S1.  $^1\text{H}$  NMR spectra of PPGDE<sub>1</sub> and bisCC PPG<sub>1</sub> (1a) and TBAI (1b) in  $\text{CDCl}_3$ .

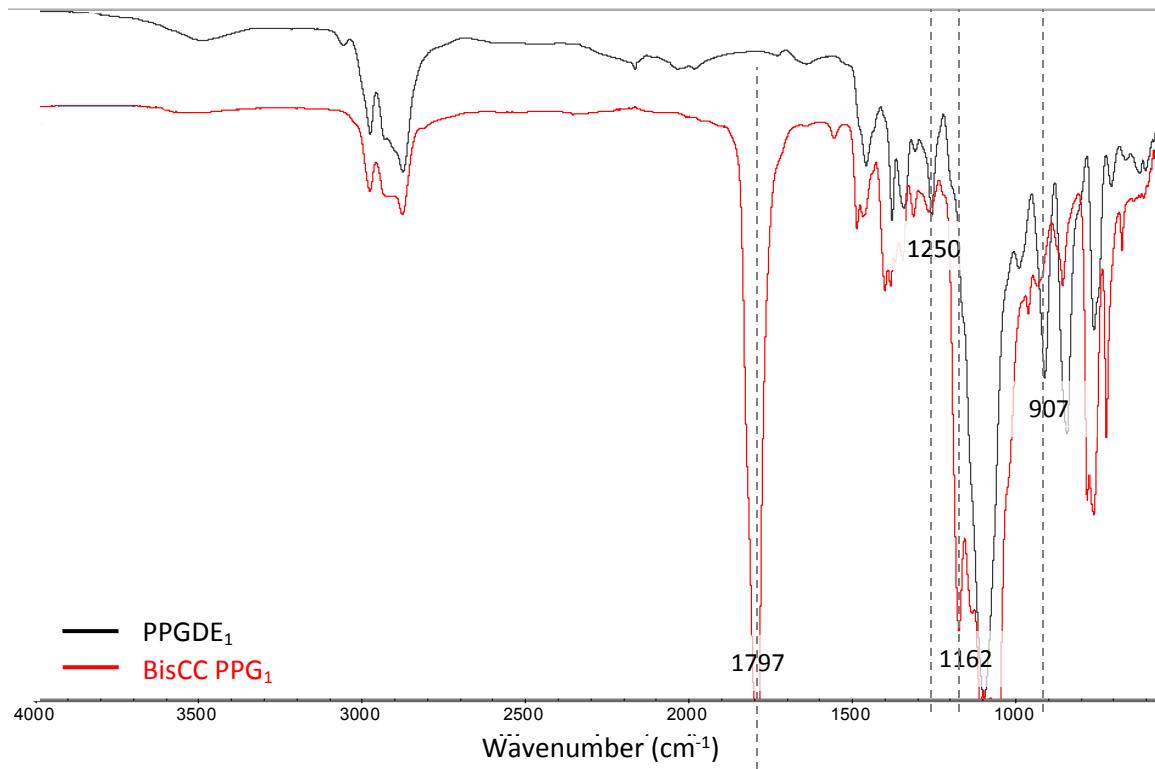


Figure S2: FTIR-ATR spectra of PPGDE<sub>1</sub> and bisCC PPG<sub>1</sub>.

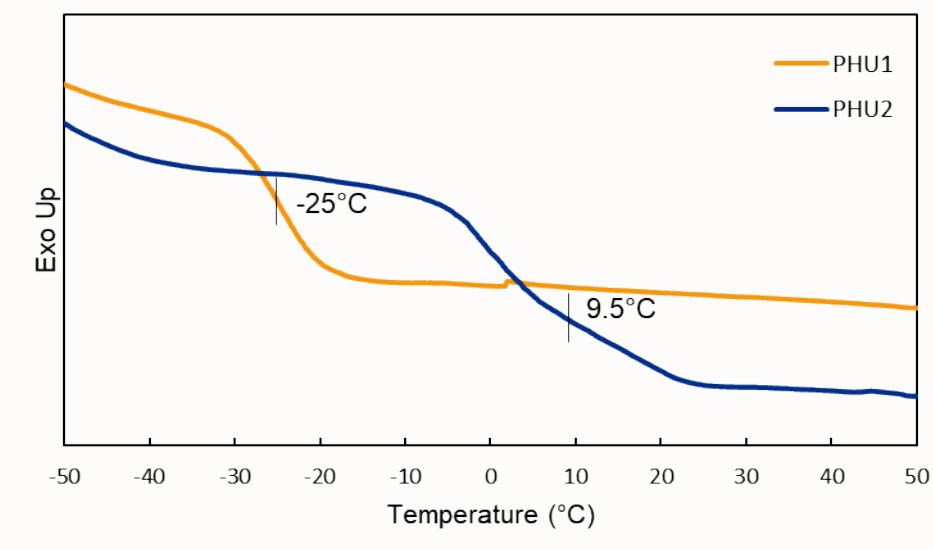


Figure S3. DSC curves of PHU<sub>1</sub> and PHU<sub>2</sub>.

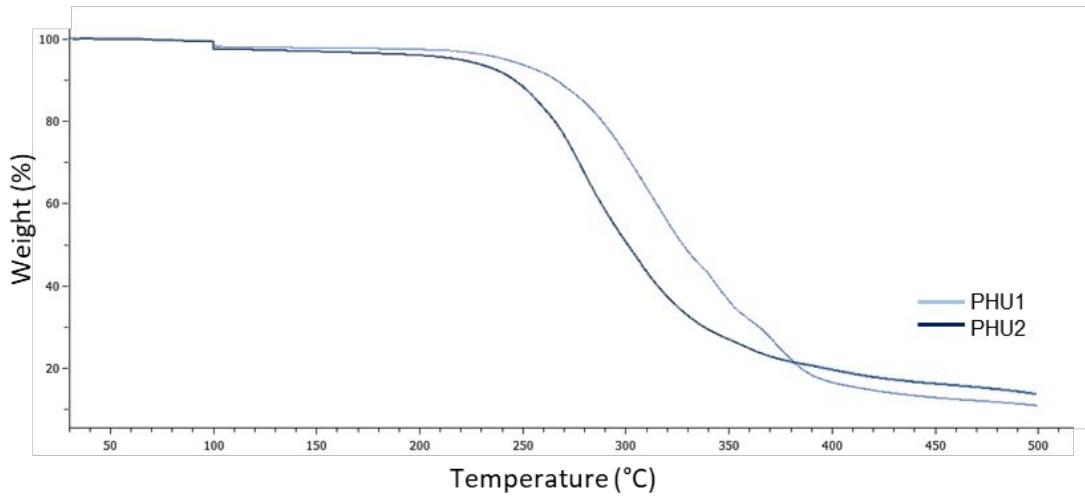


Figure S4. TGA curves of  $\text{PHU}_1$  and  $\text{PHU}_2$ .

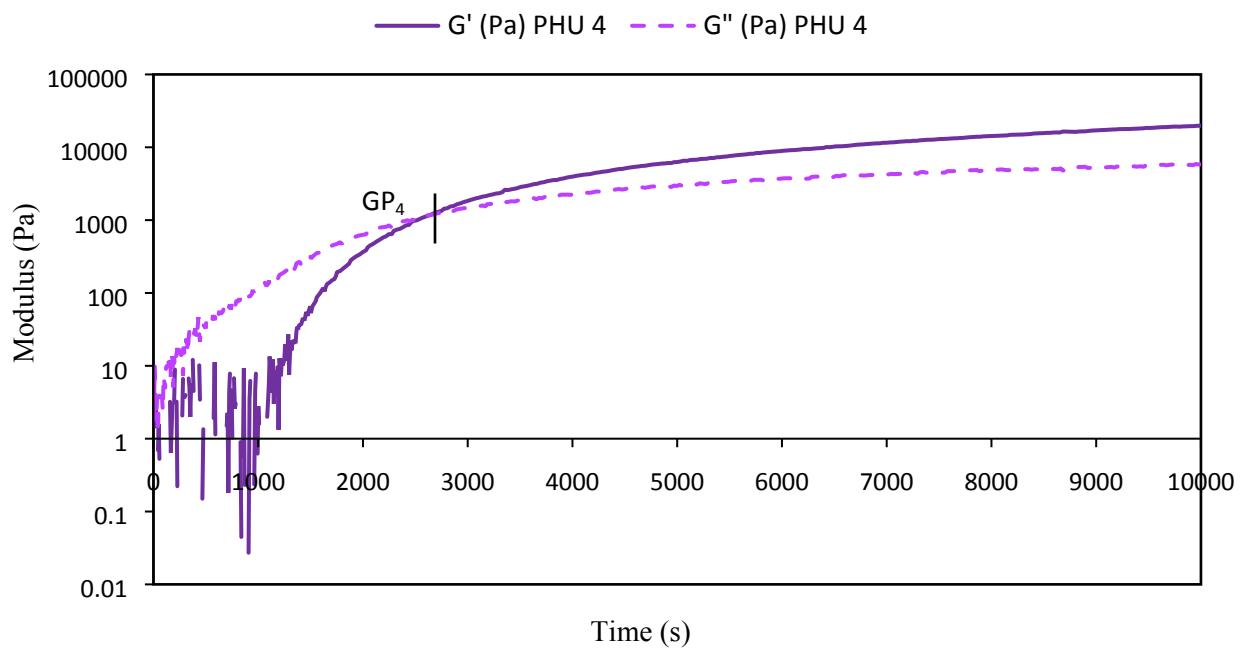


Figure S5a. Time evolution of  $G'$  and  $G''$  during the thermal crosslinking of  $\text{PHU}_4$ .

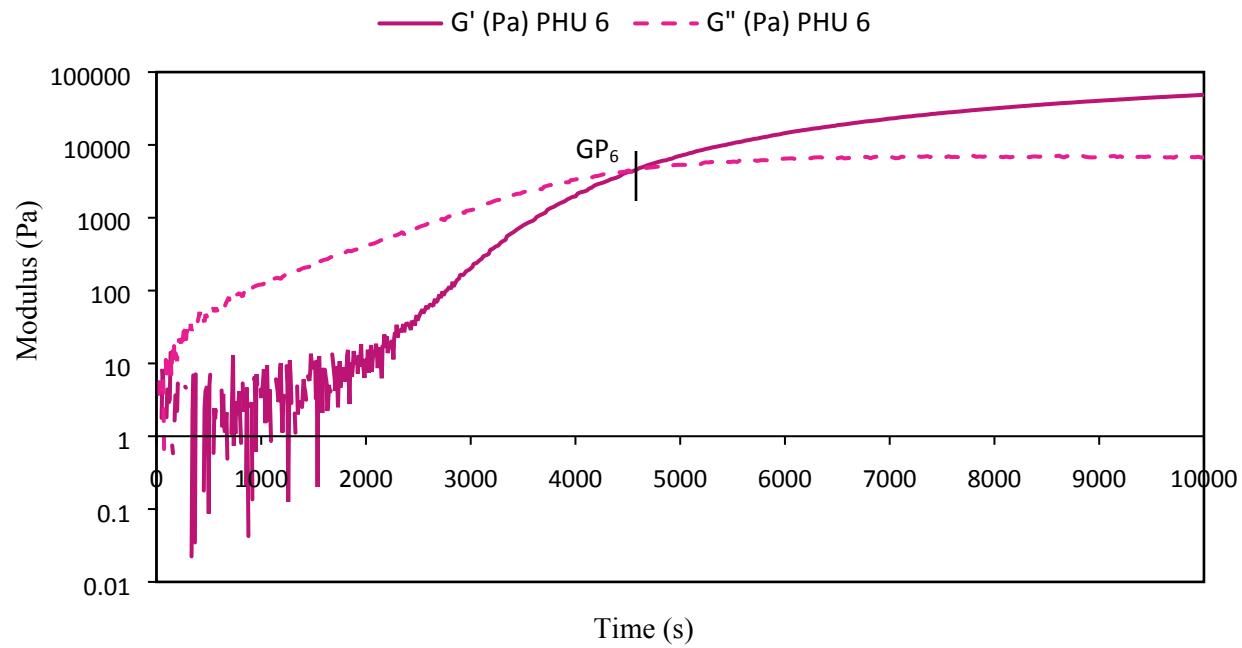


Figure S5b. Time evolution of  $G'$  and  $G''$  during the thermal crosslinking of PHU<sub>6</sub>.

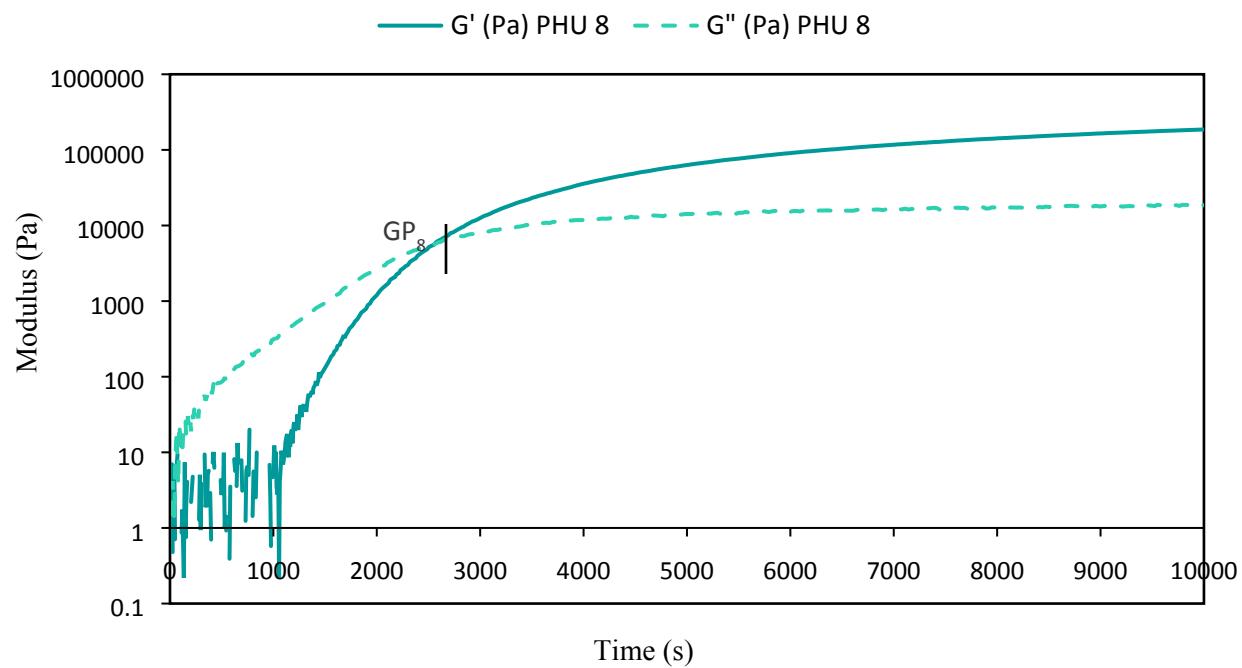


Figure S5c. Time evolution of  $G'$  and  $G''$  during the thermal crosslinking of PHU<sub>8</sub>.

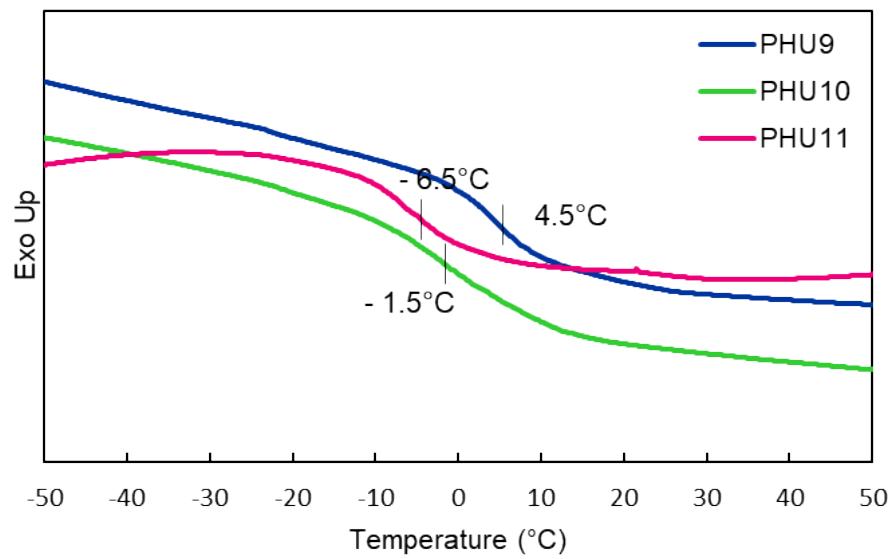


Figure S6. DSC curves of PHU<sub>9</sub> to PHU<sub>11</sub>.

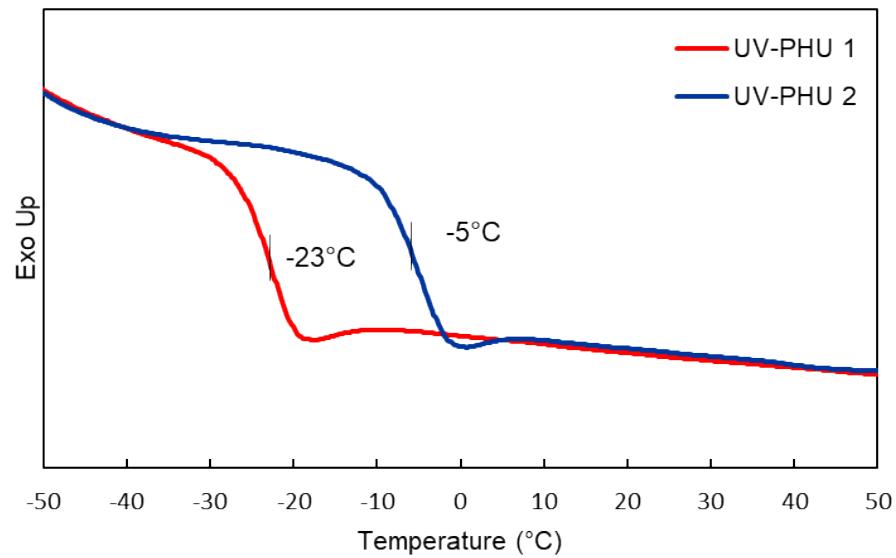


Figure S7. DSC curves of UV-PHU<sub>1</sub> and UV-PHU<sub>2</sub>.

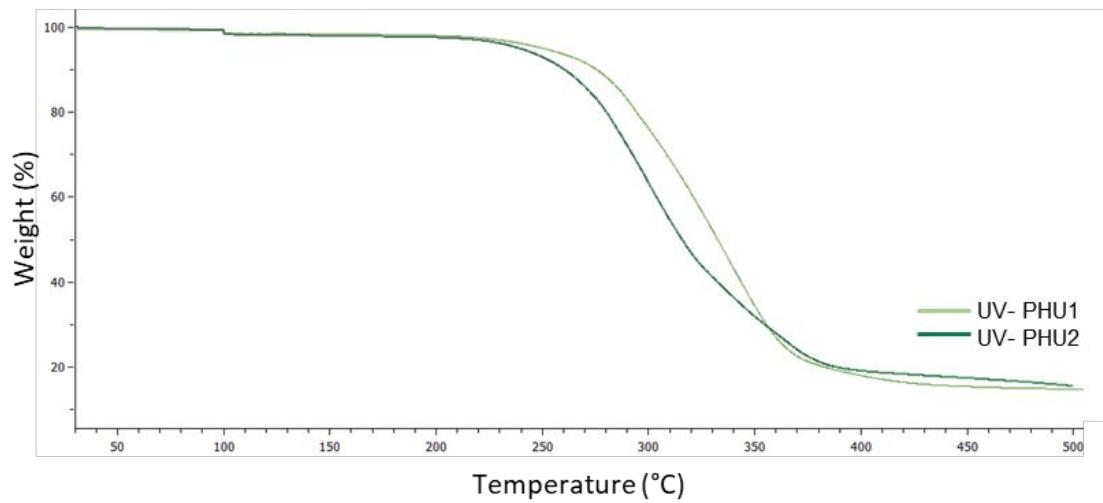


Figure S8. TGA curves of  $\text{UV-PHU}_1$  and  $\text{UV-PHU}_2$ .

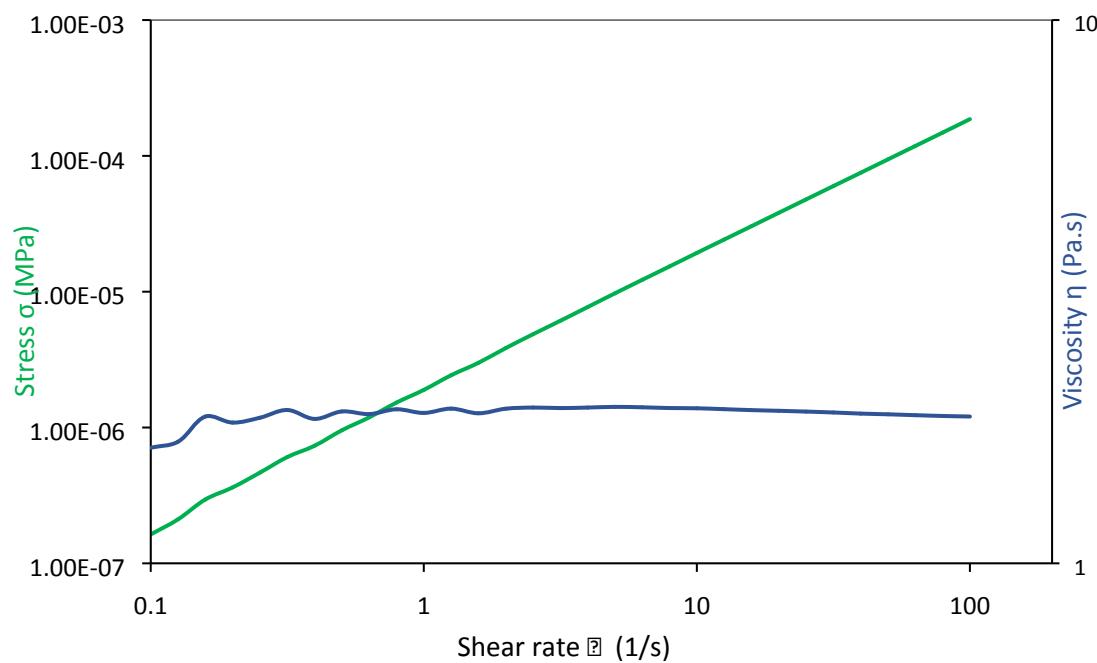


Figure S9: Dependence of viscosity on shear rate for the  $\text{PPG}_2$  photoink (flow sweep experiment).