

Highly pH-Sensitive Polyurethane Exhibiting Shape Memory and Drug Release

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Support information:

FT- IR spectra of PEG4000-MDI-BIN is presented in **Figure S1**.

¹H NMR of PEG4000-MDI-BIN is presented in **Figure S2**.

The DSC results of PEG4000-MDI-BIN are presented in **Figure S3**.

The effect of water on the hydrogen bond in polyurethane SMP is shown in **Figure S4**.

The effect of H⁺ on the hydrogen bond in polyurethane SMP is shown in **Figure S5**.

A video of the shape fixity and recovery procedure video in acid and base is shown in **Movie S1**.

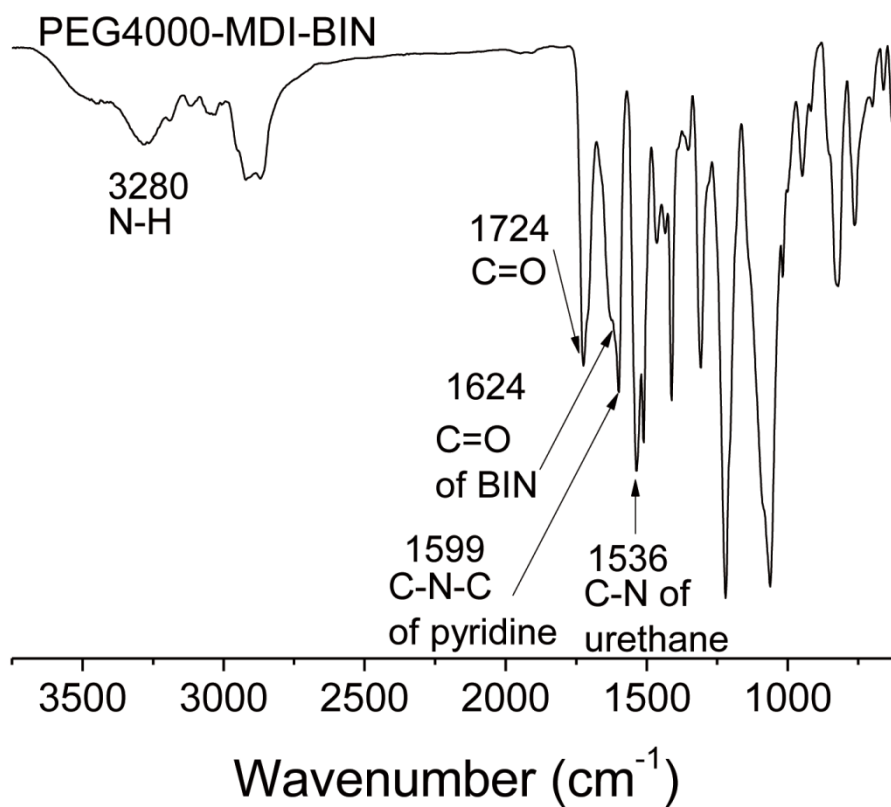
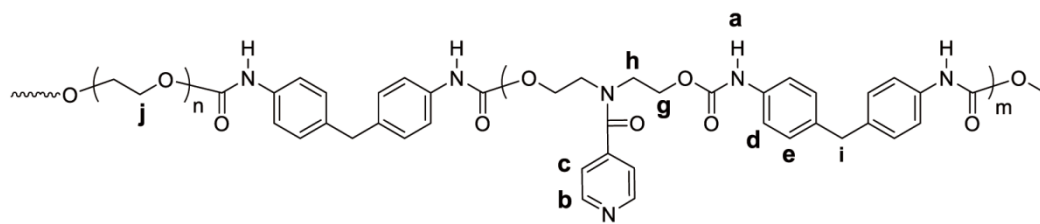


Figure S1. FT- IR spectraof PEG4000-MDI-BIN.



PEG4000-MDI-BIN

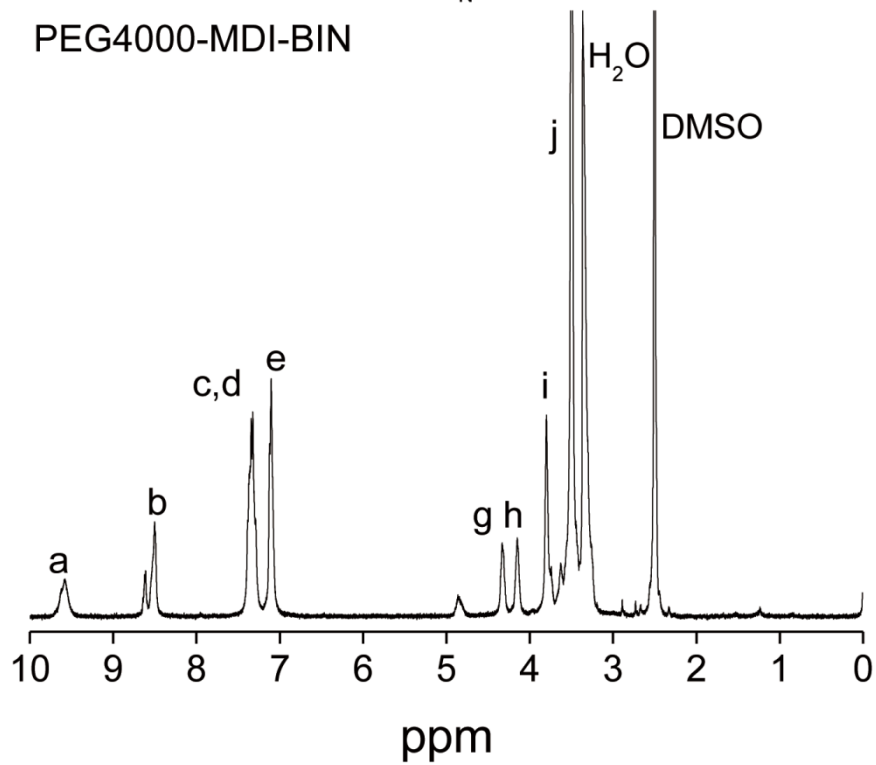


Figure S2. ¹H NMR of PEG4000-MDI-BIN.

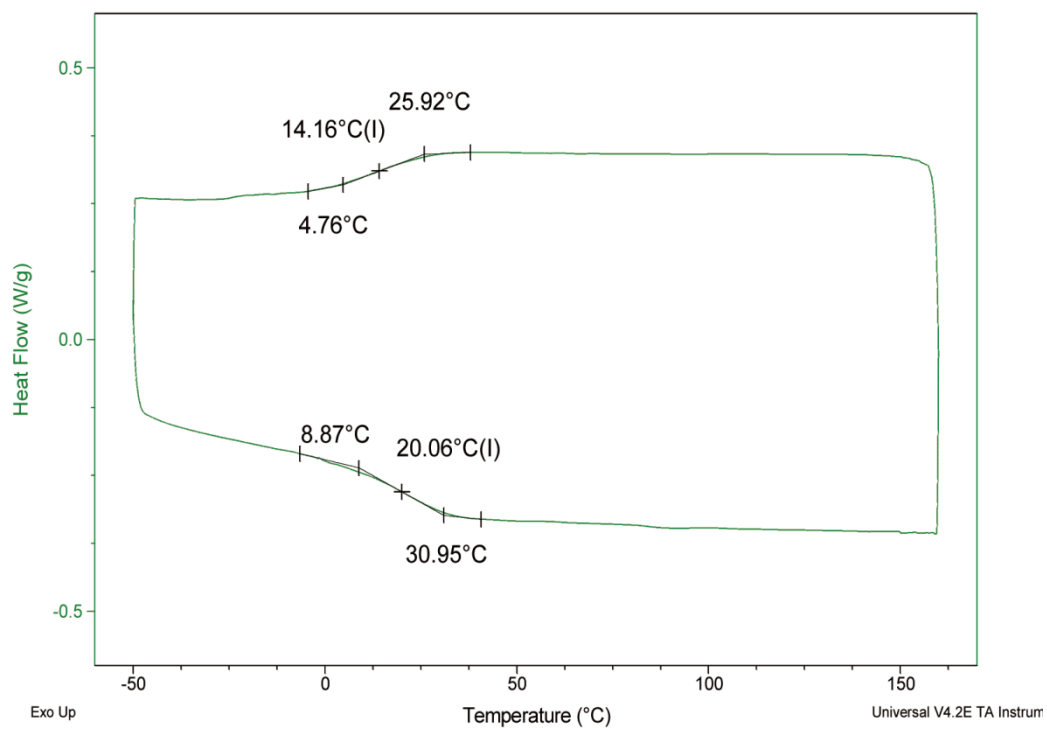


Figure S3. DSC results of PEG4000-MDI-BIN.

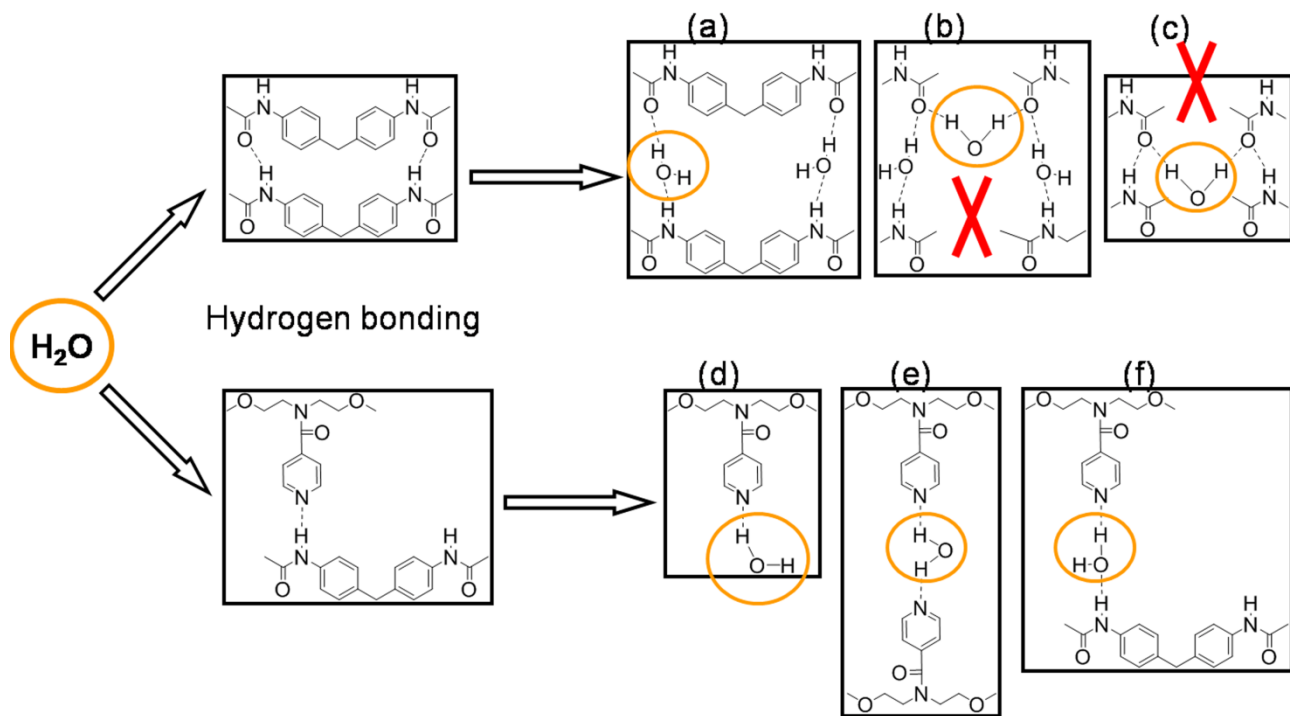


Figure S4. Effect of water on the hydrogen bond in polyurethane SMP.

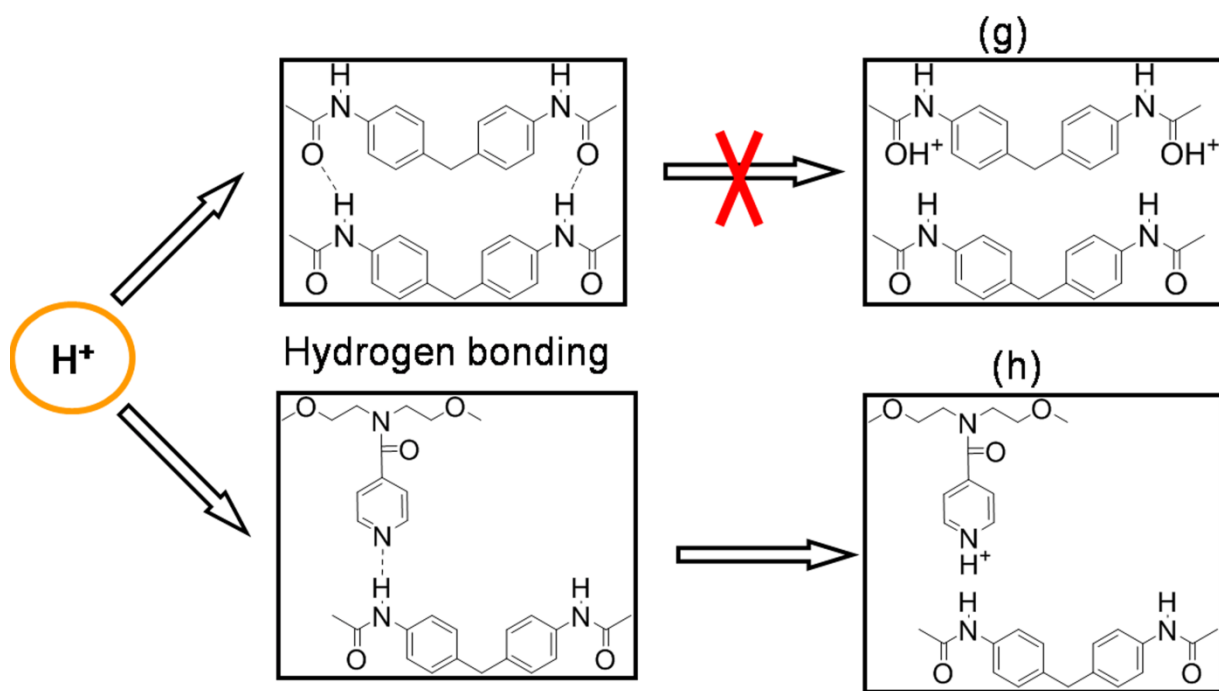


Figure S5. Effect of H^+ on the hydrogen bond in polyurethane SMP.



pH sensitive.avi

Movie S1. pH-induced shape memory recovery process.