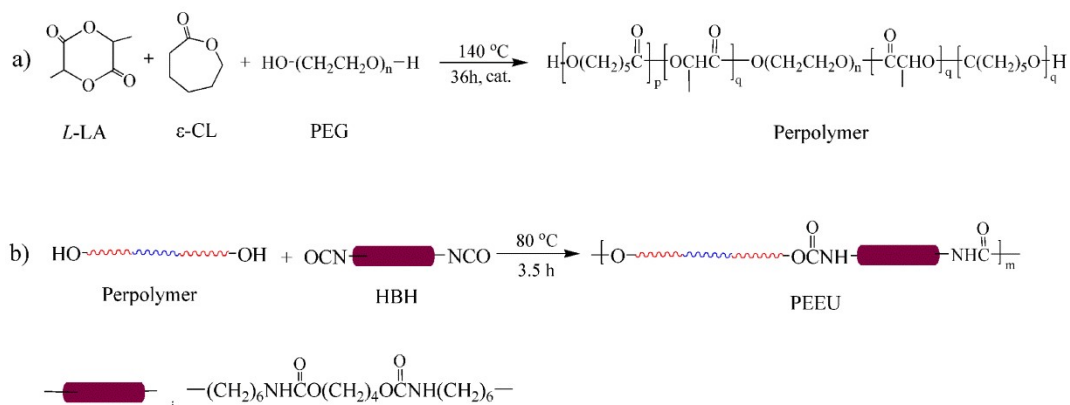
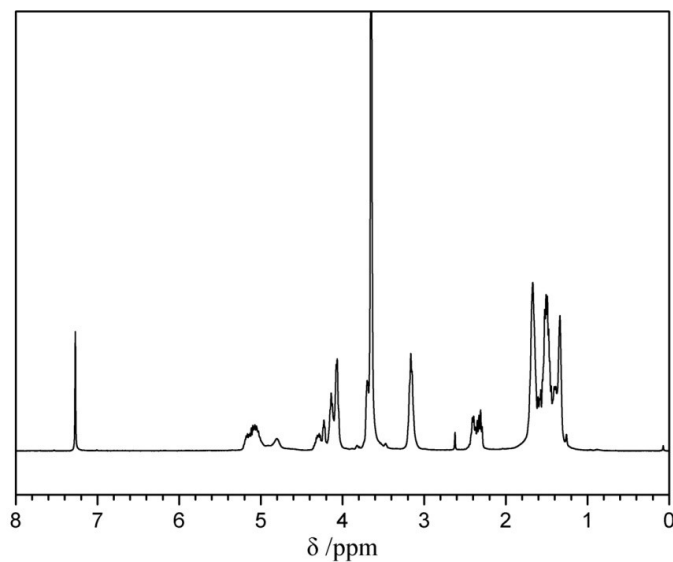


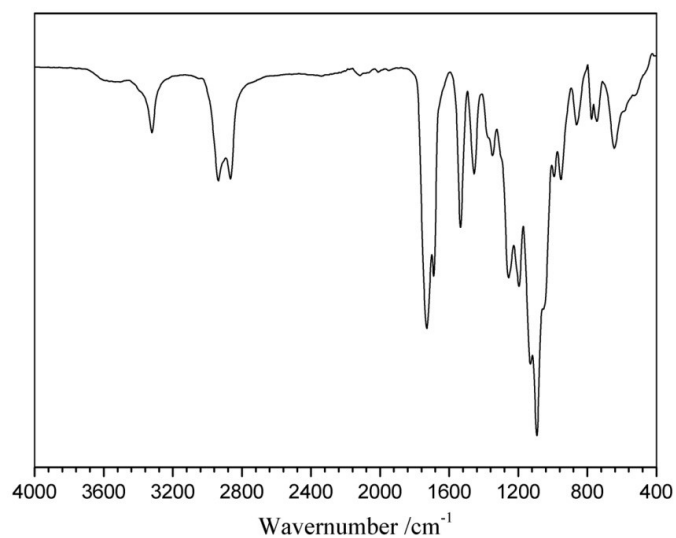
## Supporting Information



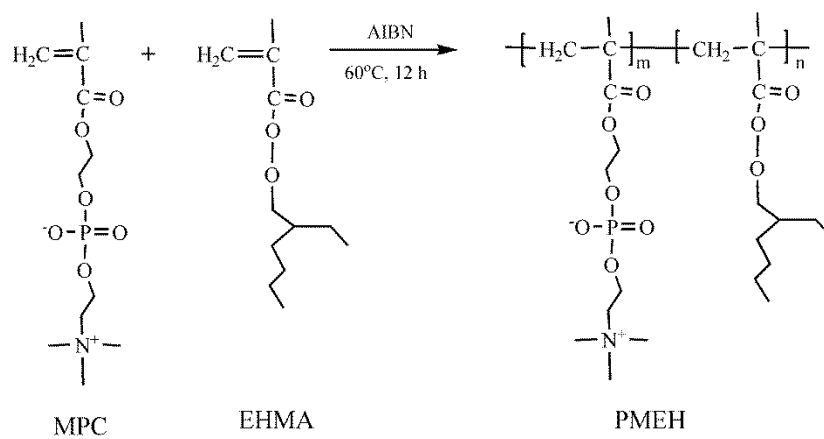
**Figure S1.** The reaction scheme of PEEU



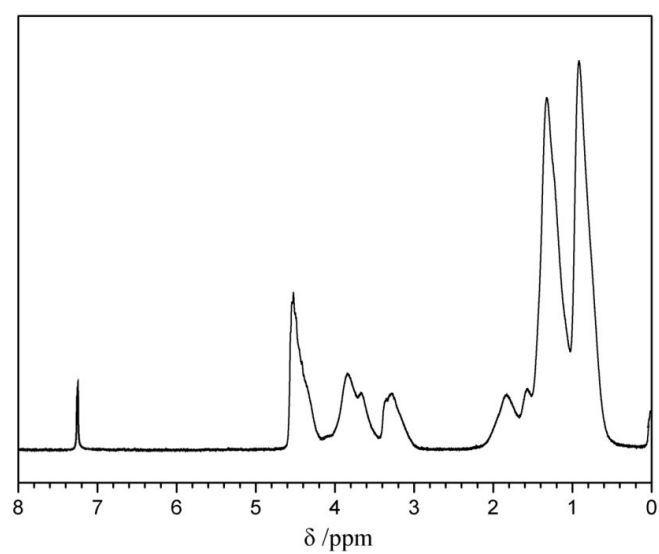
**Figure S2.** <sup>1</sup>H NMR spectrum of PEEU



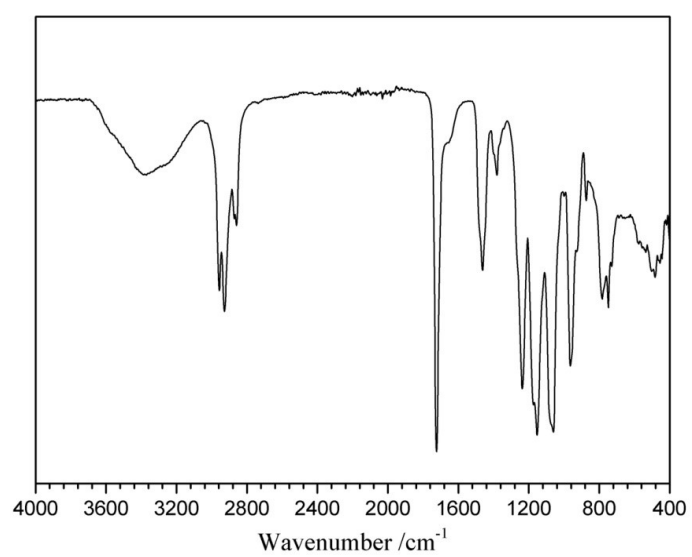
**Figure S3.** FT-IR spectrum of PEEU



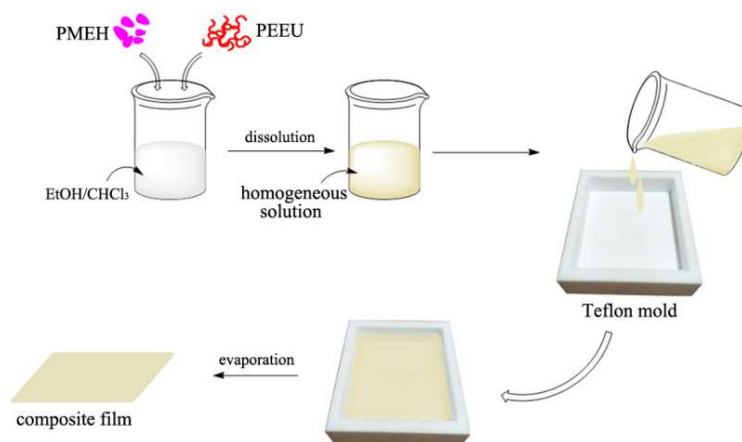
**Figure S4.** The reaction scheme of PME H



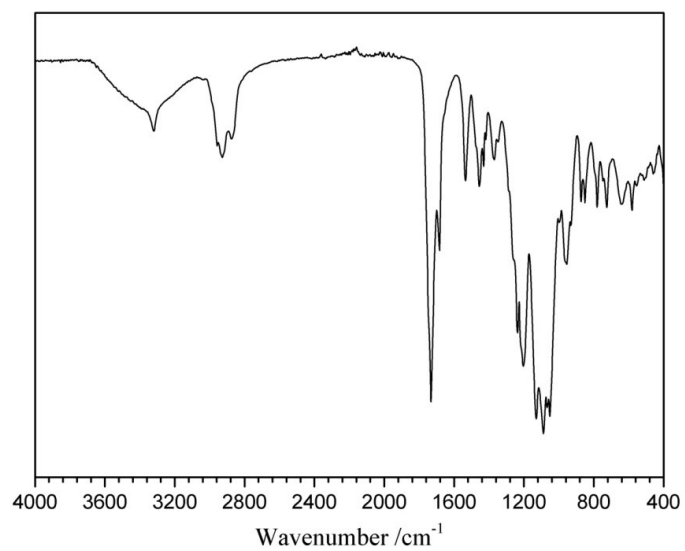
**Figure S5.**  $^1\text{H}$  NMR spectrum of PME H



**Figure S6.** FT-IR spectrum of PME H



**Figure S7.** Preparation of composite film



**Figure S8.** FT-IR spectrum of PMPU-10