Development of Supramolecular Liquid-Crystalline Polyurethane Complexes Exhibiting Triple-shape Functionality using a One-step Programming Process

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Fig. A*. Photos of a PySMPU-1.3HOBA sample with a perfect polymeric film

Fig. B*. The first DSC heating curves for pure HOBA (a) and SMPU-0.8HOBA (b) showing the main phase
Figure C* the second DSC heating curves of (a) pure HOBA and (b) SMPU-0.6HOBA showing the crystal melting process and entering mesophic phase process
Figure D*. POM images (×400) of pure HOBA showing the phase transition process.

Figure E*. POM images (×400) of SMPU-0.6HOBA showing the phase transition process.
Figure F* Temperature-dependent Frequencies for SMPU and SMPU-0.8HOBA at the position of N-H group (a) and pyridine ring (b)

Figure G* Triple shape recovery process of sample PySMPU-0.6HOBA