

Development of liquid-crystalline shape-memory polyurethane composites based on a semi-crystalline reversible phase and hexadecyloxybenzoic acid for self-healing applications

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Supplementary informations

video is provided in ESI Video A* as attached file :Video A*. Self-assemble and move spontaneously of LC-SMPU composite at liquid crystalline state

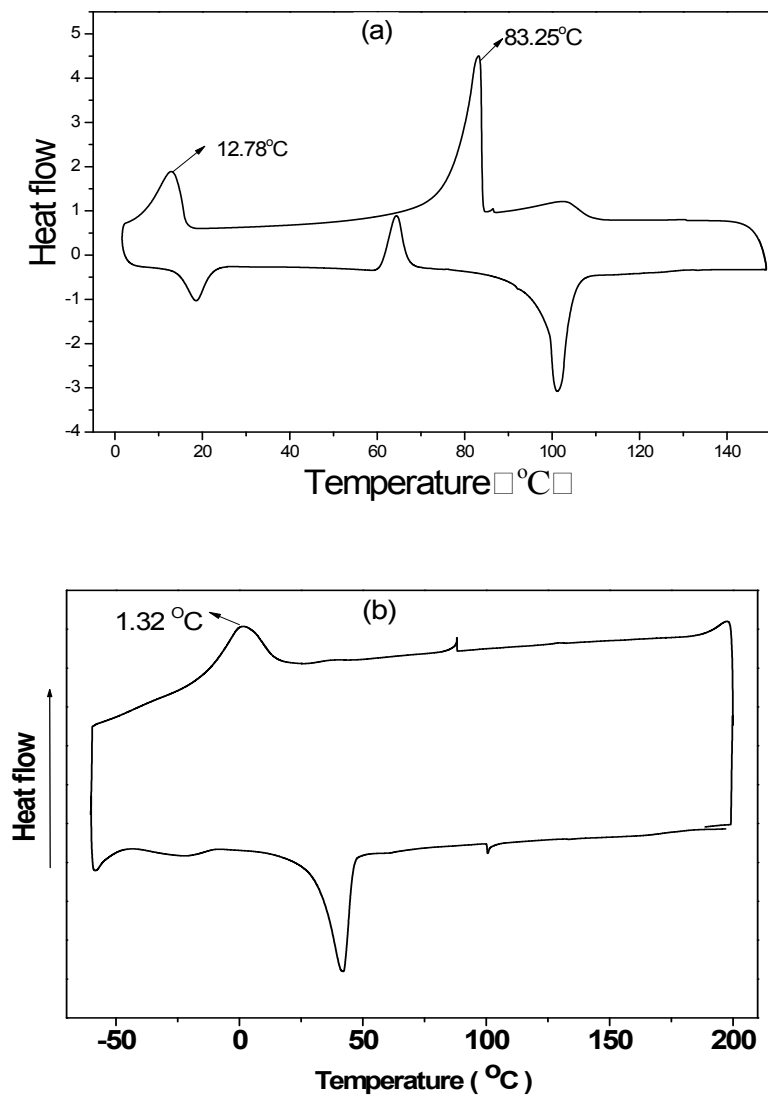


FIG. A*. DSC curves of pure HOBA (a), and pure PHA-based SMPU(b)

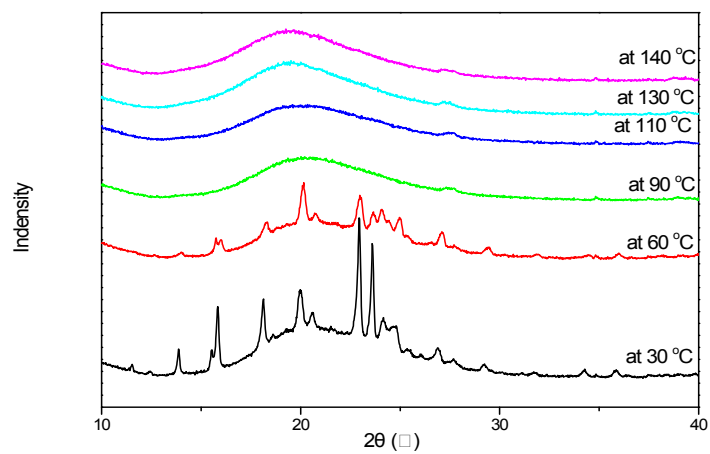


Fig B*. WAXD of sample SMPU-0.8HOBA at different temperature upon heating

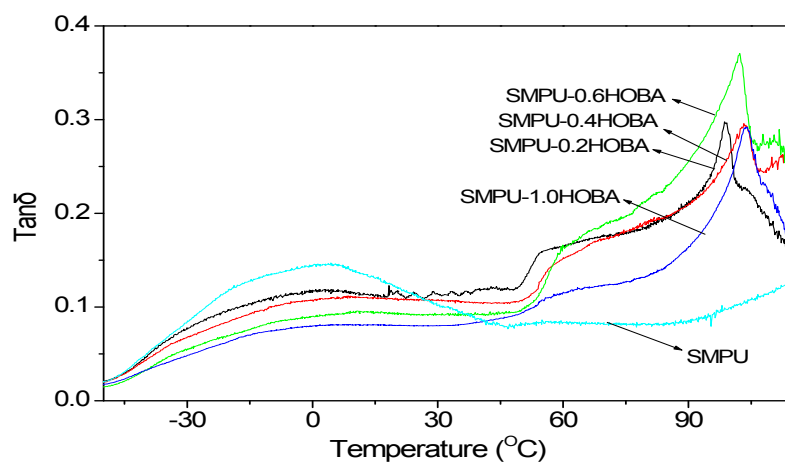


Fig. C*. $\tan\delta$ curves of LC-SMPU composites with different HOBA content

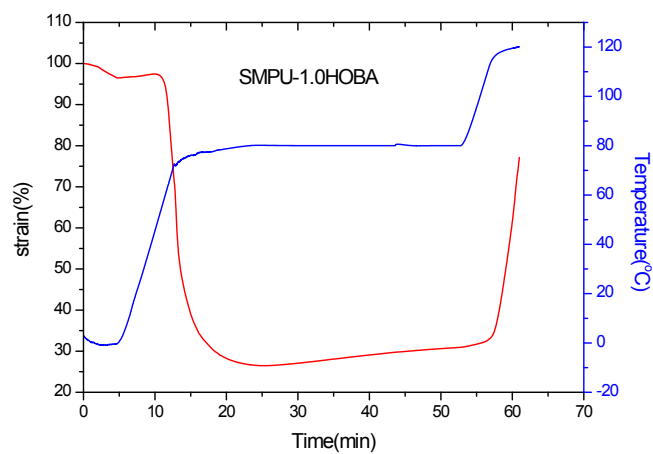
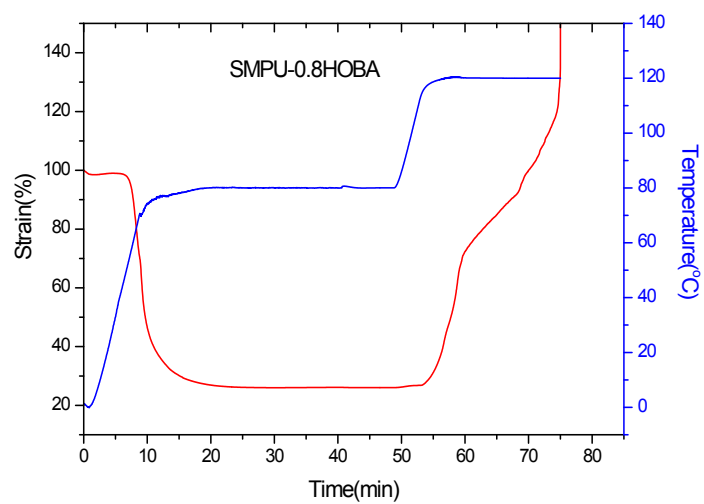


Fig. D*. Strain-time-temperature curves of LC-SMPU composites for triple-shape memory effects

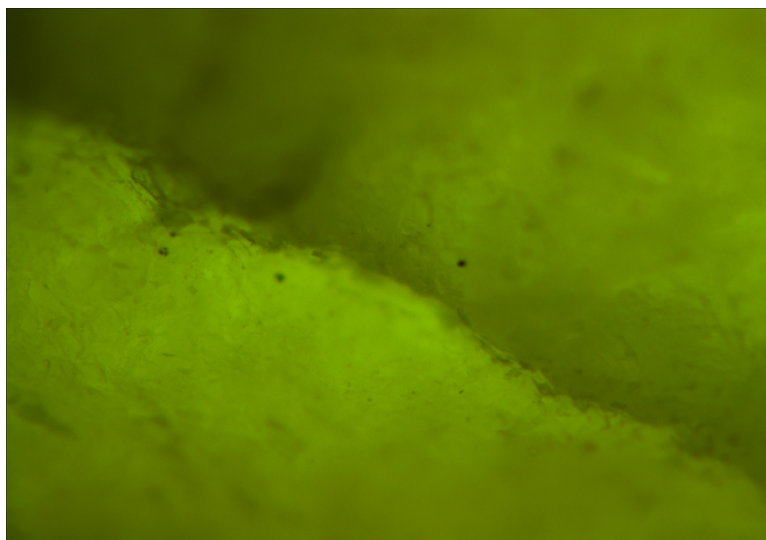


Fig. E*. Visualization image (100×) of LC-SMPU composites showing the sealed fracture