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Thermo-induced multi-shape memory polymers are a growing focus of smart materials. To achieve the multi-shape memory effect, one requirement has to be fulfilled: to have at least two reversible phase transitions. In other words, segregation is necessary. Yufen Zhang, Xue Jiang, Ronglan Wu and Wei Wang present a system of polyurethane and poly(methacrylic acid) to demonstrate this statement. They further provide a general method to synthesize multi-shape memory polymers. (DOI: 10.1002/app.43534)



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