

## **Synthesis and experimental research of shape memory epoxy series**

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### **Summary**

Shape memory epoxies and their composites have great potential applications in future deployable space structures industry. In this study six types of shape memory epoxies with different shape transition temperatures were synthesized by varying the curing agents and their contents. Thermal frozen/recovery test, DSC and DMA were performed to investigate their shape memory behaviors and thermomechanical properties. Further discussions about the testing results were presented with consideration of the microstructure.

