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**RESEARCH ARTICLE**

Harnessing Length and Height Changes in thermoresponsive Programmable Materials

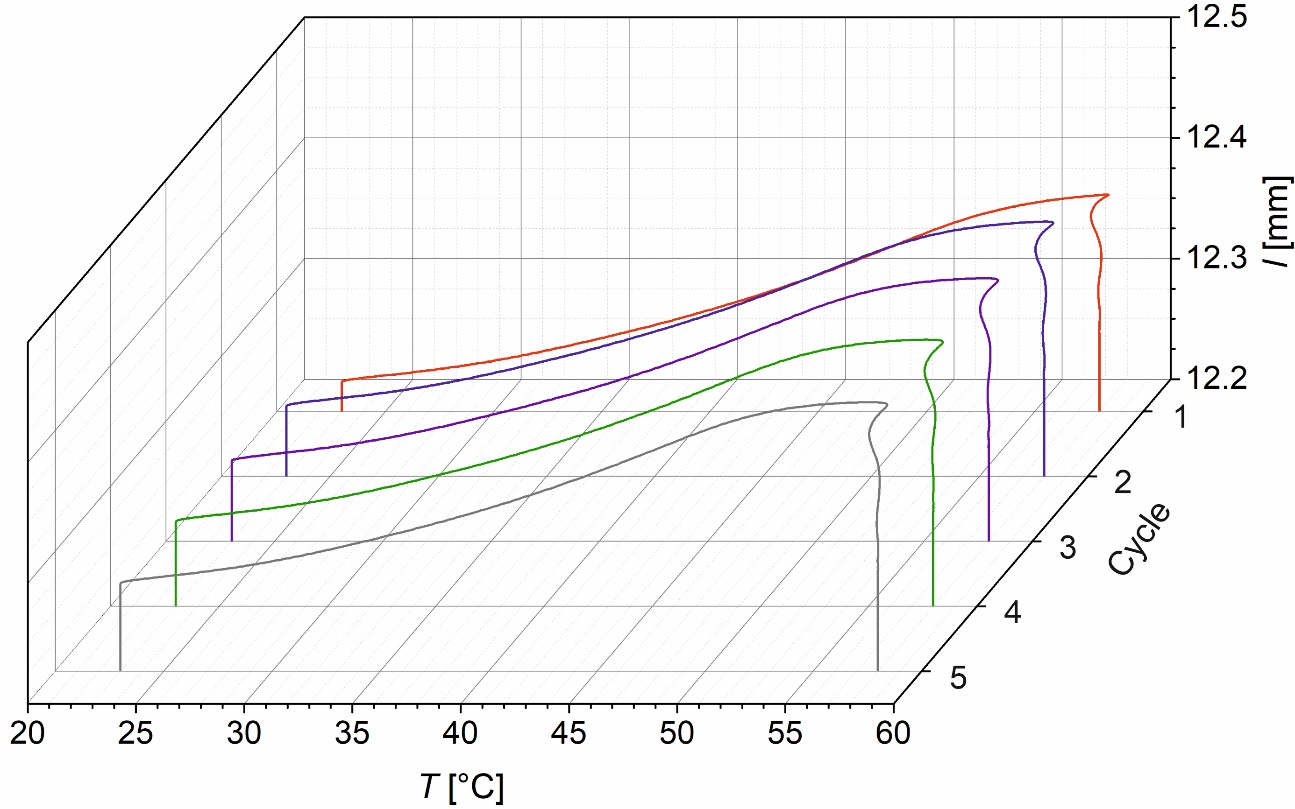
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***Figure S1.*** Thermal expansion of untreated PDA-based PEU under a weak external load of 0.001 N. Evolution of object length *l* above temperature *T* for cycles one to five.