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A universal relation for a chemomechanically changing rubber cylinder

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Highlights

- Analysis of extension/torsion for an elastomer undergoing thermally induced microstructural changes
- Application of a constitutive equation for thermally induced microstructural changes in an elastomer
- Establishment of a relation involving measurable quantities that is independent of material, time, and temperature
- Establishment of relations that can be used to measure the shear modulus of a newly formed macromolecular network

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