

## A review and comparison on some rubber elasticity models

### ABSTRACT

This study reviews several classical continuum mechanics models for incompressible and isotropic materials based on strain energy potential and then compares ability of neo-Hookean, Yeoh, Mooney-Rivlin and Ogden models in predicting uniaxial deformation states based on experimental data from dumb-bell test specimen under uniaxial loading.

**Keyword:** Curve fitting; Hyperelasticity; Rubber; Strain energy density