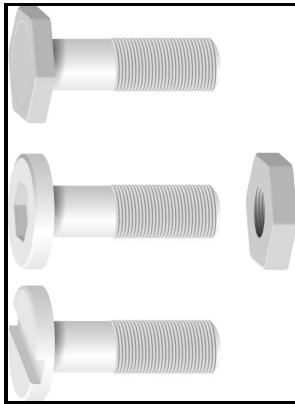


# Polymer stress reactions

## Academic Press - Polymers react to stress

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### Depolymerization

AU - White, Scott R.

### Corrosion of polymers



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Volumetric shrinkage is determined by placing a sample in a liquid usually water or mercury and measuring the displacement before and after the reaction. Illustrative examples of these investigations are given here. Two important parameters are involved in this conversation: maximum principal strain and strain energy density.

## 8 Properties of Polymer Materials for Use in Construction

The absence of oxygen drives this degradation mechanism. Thank you for taking your time to send in your valued opinion to Science X editors. Degradation damage is generally limited to the surface layer exposed to the UV radiation, to a depth of approximately 150 µm.

### The effect of polymer chain alignment and relaxation on force

Imagine a polymer that could send a warning signal if stressed close to the point of mechanical failure.

### Polymeric Materials

The reduction in molecular weight associated with degradation inherently leads to lower ductility due to the accompanying loss of entanglement of the now shortened polymer chains.

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