



Physical Aging of Polymers

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Message from the Guest Editor

Physical aging is a ubiquitous phenomenon in amorphous polymers that originates from the fact that they are generally out-of-equilibrium.

Aging can significantly influence the thermomechanical properties and subsequently the macroscopic response of polymers. It involves reversible changes in properties with no permanent modification to the structure, either chemical or physical, of the material.

The aim of this Special Issue is to highlight progress in the field of physical aging in polymers, including biodegradable polymers and polymer nanocomposites. This Special Issue covers all aspects concerning the use of methods to monitor the physical aging of polymers, the fate of the dynamics and thermodynamics of polymers, and the modification of the rate of physical aging of polymers.

This Special Issue covers the influence of physical aging on some mechanical properties, in particular with reference to the extent to which the changes in mechanical properties on aging may be interpreted quantitatively in light of the structural changes characterized by volume and enthalpy relaxation.





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Message from the Editor-in-Chief

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