

Viscosity and storage modulus

lastic deformation can store mechanical energy. The loss modulus represents the viscosity = η' and refers to the dissipation of energy in viscous fluids. The ratio of loss modulus to storage modulus is c

The depth of the viscosity-minimum is much larger in the case of oil-in-water emulsion. The storage and loss moduli of mixed oil-in-water emulsions exhibit minima at a certain proportion of ...

Also, a model is suggested for storage modulus by yield stress, relaxation time, zero complex viscosity and power-law index. The significances of various parameters on the relaxation ...

Additionally, the model for viscosity is developed for complex modulus and the impacts of various parameters on the complex modulus are explained. The reasonable roles of different ...

A cross-correlation routine then compared the Force, Time and Distance data. A number of parameters including the storage modulus (G'), the loss modulus (G''), the phase shift ...

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