

The storage modulus (E') and loss modulus (E'') of PVC compounds are shown in Figure 4. Figure 4: Results obtained by DMA (a) Storage Modulus of plasticized PVC; (b) ...

DMA analyzes of the pure compounds and the plasticized materials are shown in Figure 4 and Figure 5. The storage modulus (E') and loss modulus (E'') of PVC compounds are shown in Figure 4. Observing ...

DMA storage modulus plots can be used to calculate the T_g onset temperature of a given polymer. This is done using the graphical intersection of two lines drawn tangent to the E' ...

The present work relates the storage modulus at different frequencies to the fine/coarse ratio through a model network consisting of particle-particle contacts.

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Our previous work with PVC plastisols showed that pseudo-plastic behavior under increasing frequency of dynamic measurement was a result of the development of an immobilized layer. Subsequently, the dynamic viscosity and the storage modulus of the mobile phase were evaluated. The samples consisted o ...

Poly (vinyl chloride) (PVC)/acrylonitrile-styrene-acrylate resin (ASA) blends were proposed in this paper. Plastic and dynamic rheology behavior of melts were investigated. The influences of composition on storage modulus G' , loss modulus G'' and complex viscosity η^* were discussed. The dynamic mechanical properties, mechanical properties and morphology ...

DMS????????????,????????????????????,????????Tand????Storage modulus-????Loss modulus- ...

DMTA data for PVC: temperature dependence of the storage modulus at 10, 1, and 0.1 Hz Full size image From time-temperature equivalence we are able to predict the strain rate at which the α transition begins to affect the results from room temperature testing on PVC - seen as the point at which the polymer's strength has an increase in sensitivity to strain rate.

In general, the results have shown that in the plasticization and stabilization of PVC, the plasticizer dioctyl phthalate can be replaced by dioctyl adipate or Lestaflex without relevant changes...

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