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A positive correlation is observed between the percolation of free volume holes and mechanical strength and it is again related with the dielectric properties. The highest filler-matrix interaction is observed for the NR-3CNT case and this composite is anticipated to have application in polymer nanocomposite capacitors for energy storage.

**Free-volume correlation with mechanical and dielectric ...**  
Quantum Theory for Dielectric Properties of Conductors A. Response to Optical Electric Field Only G. M. Wysin ... tors using quantum mechanics, so that intrinsically quantum mechanical systems can be ... or a volume density of  $n = NV$ , then the net dipole moment per unit volume is the electric ...

**Quantum Theory for Dielectric Properties of Conductors A ...**  
The complex dielectric constants of binary mixtures of water-methanol and water-ethanol in the frequency range from 45 MHz to 26.5 GHz, and binary mixtures of methanol-ethanol in the range from 200 MHz to 26.5 GHz have been measured with various volume fractions around room temperature by means of an open-ended coaxial sensor and a network analyzer.

**Microwave dielectric characterization of binary mixtures ...**  
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**Structure and electronic properties ultrathin dielectric ...**  
The complex dielectric constant  $\epsilon(\omega)$  of poled LiNbO<sub>3</sub> crystals has been measured from 90 to 147 GHz using a reflectometer bridge. Electric field polarizations in both the ordinary and extraordinary axes were studied. The real part of  $\epsilon(\omega)$  differs only slightly from its value near 10 GHz, while the imaginary part is significantly larger than reported at lower frequencies.

**Dielectric constant and loss tangent in LiNbO<sub>3</sub> crystals ...**  
3.3 Dielectric properties. The dielectric properties of pure PI, pure PSF and their composites are shown in Figure 3 and summarized in Table 1. Figure 3a shows the frequency-dependent dielectric permittivity of the composite films. In the frequency range of 100 to 1,00,000 Hz, the dielectric constant of pure PI is slightly dependent on the ...

**Dielectric, mechanical and thermal properties of all ...**  
Density: Weight per unit volume of a given substance. Dielectric: 1) any insulating medium which intervenes between two conduits and permits electrostatic attraction or repulsion to take place across it. 2) a material having the property that energy required to establish an electric field is recoverable in whole or in part, as electric energy ...

**Engineering Terms - Accurate Plastics - Yonkers, NY**  
S Ahmed, Zoubeida Ounaies and Mary I Frecker, 2014, "Investigating the performance and properties of dielectric elastomer actuators as a potential means to actuate origami structures", Smart Materials and Structures, 23, (9), pp. 094003

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