1-S.El-Sayed, ZeinabR. Farag, and <u>S.Saber</u> "Dielectric relaxations and optical properties of polyvinylidene fluoride/chitosan films" AIP Advances 10,

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Abstract:

Polyvinylidene fluoride (PVDF) was blended with different ratios (5%, 7%, and 10% of (CS).The dielectric chitosan properties PVDF and CS/PVDF flms were investigated in (30 oC−140 oC) and (10² Hz−10⁶ **Both** frequency and temperature dependence Hz) the real part, M', and the imaginary part, M'', of the dielectric modulus were conductivity (\sigma ac) of analyzed. The ac all samples studied to throw light on the conduction mechanism. Results of the UV-vis spectra of the discussed flms to determine important were optical parameters when CS is blended with PVDF. There is a good consistency between the dielectric and optical results.